Auction 110
Public Reporting System File Formats

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1. Clock Phase

1.1. Announcements

File name: clock_announcements.csv

The clock phase announcements that are available to the public are in this file.

File Structure:

- CSV file (first row contains header)
- One record per round

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
announcement_time	Time the announcement was posted	String YYYY-MM-DD HH:MM:SS	2019-12-10 10:00:00 *All times are in Eastern Time.*
subject	Subject of announcement	String	Round 2 begins next.
announcement	Text of the announcement	String	"As a reminder, Auction begins next round…"

1.2. Round Summary

File name: clock_round_summary.csv

The Round Summary file provides high-level information for each round.

File Structure:

- CSV file (first row contains header)
- One record per round

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
auction_description	Description of auction	String	3.45 GHz
round	Round number	Integer	12
start_time	Round starting time	String YYYY-MM-DD HH:MM:SS	2021-10-10 10:00:00 *All times are in Eastern Time.*

Field	Description	Data Type	Example/*Notes*
end_time	Round ending time	String YYYY-MM-DD HH:MM:SS	2020-10-10 12:00:00 *All times are in Eastern Time.*
reserve_price_met	A flag that indicates whether the reserve price has been met	String [Y|N]	Y N
proceeds	Actual gross proceeds after the round	Integer	2077000000
net_proceeds	Net proceeds based on the processed bids	Integer	1990000000 *If the round is not the final clock round, bidding credits are incorporated with a worst-case calculation. In the last round of the clock phase, it is the sum, over all bidders, of a bidder's commitment minus its capped commitment discount.*
reserve_price	Targeted net revenue for the auction	Integer	14775354330 *Same value for all rounds*
activity_requirement	Activity requirement percentage per bidder per round	Integer	100 = 100% 80 = 80%
contingent_bidding_limit_percentage	Maximum activity percentage that a bidder can submit in this round	Integer	120 = 120%
increment_percentage	Increment percentage	Integer	10 = 10%
increment_cap	Maximum price increment	Integer	500000
products_with_aggregate_demand_greater_than_supply	Number of products (market-category combination) with aggregate demand greater than supply	Integer	196
products_with_aggregate_demand_equal_to_supply	Number of products (market-category combination) with aggregate demand equal to supply	Integer	5
products_with_aggregate_demand_less_than_supply	Number of products (market-category combination) with aggregate demand less than supply	Integer	2

1.3. Bids

File name: clock_bids.csv

The Bids file provides a list of all the bids considered by the bidding system in each round. Each bid pertains to a specific product (PEA and license category combination) offered.

In addition to providing information about the bid, the file provides information about the associated product in that round, such as the opening price, clock price, and supply.

File Structure:

- CSV file (first row contains header)
- One record per round and bid combination
- This file may also contain missing bids submitted by the bidding system. A missing bid is a simple bid for a quantity of 0 at the lowest possible price for the product in that round.
- The file contains two entries for each switch bid: one for the "from" category and one for the "to" category. The "from" and "to" categories are listed in both records in switch_from_category and switch_to_category.

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	12
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
market	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"
category	The license category	String [Cat1|Cat2]	Cat1 Cat2
bidding_units	Bidding units per block associated with the product	Integer	2300
bid_type	Type of bid	String [Simple | Switch]	Simple Switch
quantity	Quantity associated with the bid (in blocks)	Integer	2 *This value is the requested quantity for the product (not the number of blocks to be reduced or switched).*

Field	Description	Data Type	Examples/*Notes*
price	Price associated with the bid (per block)	Integer	125000 *For the "to" product in a switch bid, this value is the clock price associated with the product.*
price_point	The price point associated with the bid	Decimal [0-1] {10}	0.7560548272 *In Round 1 this value is 1.0000000000.* *For the "to" product in a switch bid, this value will always be 1.0000000000 regardless of the price point of the "from" product.*
switch_from_category	For the "to" product in a switch bid, this field indicates the license category of the "from" product in a switch bid	String [Cat1|Cat2]	Cat1 Cat2 *Null for Simple and the "from" product of a switch bid*
switch_to_category	For the "from" product in a switch bid, this field indicates the license category of the "to" product in a switch bid	String [Cat1|Cat2]	Cat1 Cat2 *Null for Simple and the "to" product of a switch bid*
supply	The supply of blocks associated with the product	Integer	5
previous_round_aggregate_demand	The aggregate demand for the product at the start of the round	Integer	12 *Null for Round 1*
previous_round_processed_demand	The bidder's processed demand for the product at the start of the round	Integer	4 *Null for Round 1*
start_of_round_price	The lowest price available for bidding on the associated product in the round	Integer	11500000 *In Round 1 this is the opening price, for all other rounds it is the posted price from the previous round.*
clock_price	The clock price (highest price) of the associated product in the round	Integer	12650000

Field	Description	Data Type	Examples/*Notes*
selection_number	The pseudo-random number associated with the bid used for tie-breaking purposes	Integer {1,15}	123456789012345

1.4. Results

File name: clock_results.csv

The Results file provides a list of the results of bid processing for all products (PEA and license category combinations) for which each bidder had processed demand in the previous round and/or submitted a bid for the product in the previous round. For each product the file gives the processed demand, posted price, and the aggregate demand. Additionally, if a bid was not fully accepted, the file provides an indication of such and details about why one or more bids for the product were not accepted.

File Structure:

- CSV file (first row contains header)
- One record for each round and product combination where bidders had processed demand for the product and/or submitted a bid for the product in the previous round

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	12
bidder	Bidder name	String	Company XYZ “ABC, Inc.”
frn	The bidder’s FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
market	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”
category	The license category	String [Cat1|Cat2]	Cat1 Cat2
processed_demand	The bidder’s demand for the product after processing	Integer	2

Field	Description	Data Type	Examples/*Notes*
fully_processed_flag	A flag that indicates whether all bids for the product were fully processed	String [Y|N]	Y N *If a switch bid is not fully processed, both the "from" and "to" categories will have an "N".*
processed_demand_detail	Details about why one or more bids for the product were not accepted or not fully accepted during bid processing	String {500}	"Simple bid to increase demand to 4 @ $147,000,555: 2 blocks were not applied due to insufficient eligibility." "Simple bid to reduce demand to 0 @ $36,600,222: 3 blocks were not applied due to insufficient aggregate demand." *If more than one detail message is applicable (e.g., intra-round bids), then the messages are separated with semi-colons.* *If a switch bid was partially (or not) processed, the message will be in the record for both the switch from and to categories.* *Null if all bid(s) for the product were fully accepted*
bidding_units	Bidding units per block associated with the product	Integer	2300
supply	The supply of blocks associated with the product	Integer	10
aggregate_demand	The aggregate demand for the product after processing	Integer	15
posted_price	The posted price for the product after processing	Integer	12650000

1.5. Product Status

File name: product_status.csv

The Product Status file provides the status of each product (PEA and license category combination) after bid processing in each round. For each product the file includes the posted price, aggregate demand and clock price in the next round. The file also provides additional information about each product such as the opening price and clock price for the round, supply, bidding units, and population.

File Structure:

- CSV file (first row contains header)
- One record for each round and product combination

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	12
market	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"
category	The license category	String [Cat1|Cat2]	Cat1 Cat2
small_market_indicator	A flag that indicates whether the market is subject to the small market bidding cap	String [Y|N]	Y N
notable	A flag that indicates whether the product is notable and bidders should investigate details	String [Y|N]	Y N
population	Population of the PEA	Integer	25237061
bidding_units	Bidding units per block associated with the product	Integer	2300
supply	The supply of blocks associated with the product	Integer	10
start_of_round_price	The lowest price per block available for bidding on the product in the round	Integer	11500000 *In Round 1 this is the opening price, for all other rounds it is the posted price from the previous round.*

Field	Description	Data Type	Example/*Notes*
clock_price	The clock price (highest price) per block for the product in the round	Integer	12650000 *The clock_price can be higher than the posted price for the round.*
aggregate_demand	The aggregate demand for the product after processing	Integer	15
posted_price	The posted price for the product after processing	Integer	12650000
next_round_clock_price	The clock price (highest price) per block for the product in the next round	Integer	13915000

1.6. Bidders

File name: clock_bidders.csv

The bidders file provides the list of qualified bidders in the auction and information about the bidding credit, if any, associated with each bidder.

File Structure:

- CSV file (first row contains header)
- One record for each bidder

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
eligibility	Initial eligibility in bidding units	Integer	8000000
bidding_credit	The bidding credit percentage associated with the bidder	Integer [0|15|25]	15 25 0 *0 = no bidding credit* *15 = 15% bidding credit* *25 = 25% bidding credit*

Field	Description	Data Type	Example/*Notes*
bidding_credit_type	Indicates the type of bidding credit for the bidder Rural = rural service provider bidding credit Small Business = small business bidding credit	String [Rural | Small Business]	Rural Small Business *Null if no bidding credit for the bidder*

1.7. Bidder Status

File name: clock_bidder_status.csv

The Bidder Status file provides information related to bidders for a round. For each round the file gives bidders' eligibilities, required activities and bidding activities in the round. The results of bid processing are also given for the round including bidders' processed activities as well as the bidders' eligibilities and required activities for the next round. Financial information for bidders (requested commitment, processed commitment, net requested commitment, and processed net commitment) are also given.

File Structure:

- CSV file (first row contains header)
- One record for each round and bidder combination

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	12
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
bidding_credit	The bidding credit percentage associated with the bidder	Integer [0|15|25]	0 15 25 *0 = no bidding credit* *15 = 15% bidding credit* *25 = 25% bidding credit*

Field	Description	Data Type	Examples/*Notes*
bidding_credit_type	Indicates the type of bidding credit for the bidder Rural = rural service provider bidding credit Small Business = small business bidding credit	String [Rural | Small Business]	Small Business Rural *Null if the bidder does not have a bidding credit*
eligibility	The bidder's eligibility in bidding units at the start of round	Integer	8000000
contingent_bidding_limit	The bidder's maximum activity that it can submit for the round	Integer	10000000 *For Round 1, contingent_bidding_limit = eligibility*
required_activity	The bidder's required activity in bidding units for the round	Integer	5000000
activity	The bidder's bidding activity in bidding units for the round	Integer	4000000
requested_commitment	The bidder's requested commitment in dollars for the round	Integer	346000000
requested_commitment_discount	The bidder's requested discount in dollars for the round based on any bidding credits and applying any applicable bidding credit caps	Integer	10000000 *Null if the bidder does not have a bidding credit*
requested_net_commitment	The bidder's requested net commitment in dollars for the round	Integer	336000000 *Null if the bidder does not have a bidding credit*
requested_commitment_discount_uncapped	The bidder's requested discount in dollars for the round based on any bidding credits without applying any applicable bidding credit caps	Integer	16000000 *Null if the bidder does not have a bidding credit*
requested_commitment_discount_uncapped_small	The bidder's requested discount in dollars for the round in the small markets based on any bidding credits without applying any applicable bidding credit caps	Integer	11000000 *Null if the bidder does not have a small business bidding credit*

Field	Description	Data Type	Examples/*Notes*
processed_activity	The bidder's bidding activity in bidding units after processing	Integer	4100000
commitment	The bidder's commitment in dollars for the round	Integer	348500000
commitment_discount	The bidder's discount in dollars for the round based on any bidding credits and applying any applicable bidding credit caps	Integer	10000000 *Null if the bidder does not have a bidding credit*
net_commitment	The bidder's net commitment in dollars for the round	Integer	338500000 *Null if the bidder does not have a bidding credit*
commitment_discount_uncapped	The bidder's discount in dollars for the round based on any bidding credits without applying any applicable bidding credit caps	Integer	15900000 *Null if the bidder does not have a bidding credit*
commitment_discount_uncapped_small	The bidder's discount in dollars for the round in the small markets based on any bidding credits without applying any applicable bidding credit caps	Integer	11900000 *Null if the bidder does not have a small business bidding credit*
next_round_eligibility	The bidder's eligibility in bidding units at the start of the next round	Integer	5125000
next_round_contingent_bidding_limit	The bidder's maximum activity that it can submit for the next round	Integer	5300000
next_round_required_activity	The bidder's required activity in bidding units for the next round	Integer	4100000

1.8. Markets

File name: markets.csv

The Markets file defines the geographic markets in the auction. The geographic markets are Partial Economic Areas (PEAs). For each PEA the file provides the market number, name, population, bidding units, and whether the market is subject to the small market bidding credit cap.

File Structure:

- CSV file (first row contains header)
- One record for each market

Field	Description	Data Type	Examples
auction_id	The FCC auction number for the auction	String	110
market	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"
population	Population of the PEA	Integer	25237061
bidding_units	Bidding units per block in the PEA	Integer	25000
price	Minimum opening price that applies to all the blocks in the PEA	Integer	500000
small_market_indicator	A flag that indicates whether the PEA is subject to the small market bidding credit cap	String [Y|N]	Y N

1.9. Bidder Markets

File name: bidder_markets.csv

The Bidder Markets file lists the markets each bidder selected on its FCC Form 175.

File Structure:

- CSV file (first row contains header)
- One record for each bidder and market combination

Field	Description	Data Type	Examples
auction_id	The FCC auction number for the auction	String	110
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
market	The PEA (Partial Economic Area) ID	String	PEA001
market_name	The PEA name	String	"New York, NY"

Field	Description	Data Type	Examples
selected_market	A flag that indicates whether the bidder selected the PEA on its application form	String [Y|N]	Y N

2. Assignment Phase

2.1. Round Summary

File name: assignment_round_summary.csv

The Round Summary file provides high-level information for each assignment round.

File Structure:

- CSV file (first row contains header)
- One record per assignment round

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
auction_description	Description of auction	String	3.45 GHz
round	Round number	Integer	12
start_time	Round starting time	String YYYY-MM-DD HH:MM:SS	2021-12-10 10:00:00 *All times are in Eastern Time.*
end_time	Round ending time	String YYYY-MM-DD HH:MM:SS	2021-12-10 10:30:00 *All times are in Eastern Time.*
proceeds	The gross proceeds after the round	Integer	2077000000 *This includes the clock phase payments for all PEAs and the assignment payments for all completed assignment rounds.*

Field	Description	Data Type	Example/*Notes*
net_proceeds	The net proceeds after the round	Integer	1990000000 *This includes the clock phase payments for all PEAs and the assignment payments for all completed assignment rounds, and takes bidding credit and bidding credit caps into account.*

2.2. Bids

File name: assignment_bids.csv

The Bids file provides the details of the bidding options available to each bidder in each round in which the bidder could participate based on its winnings in the clock phase.

File Structure:

- CSV file (first row contains header)
- One record for each available bidding option for each bidder

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	11 *Information about Round 0 (pre-assigned markets) is not included in this file.*
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN), which uniquely identifies a bidder	String [0-9]{10}	0003645844
region	The REAG of the Partial Economic Area(s) except for PEAs 1–20. For PEAs 1–20, "TOP 20"	String [TOP 20| REAG 1| REAG 2| REAG 3| REAG 4| REAG 5| REAG 6]	REAG 2 TOP 20

Field	Description	Data Type	Examples/*Notes*
market	The PEA ID(s) associated with the bidding option	String	PEA001 PEA077;PEA138 *Multiple PEAs are separated with semicolons.*
market_name	The PEA name(s) associated with the bidding option	String	"New York, NY" "Portland, ME;Burlington, VT" *Multiple PEAs are separated with semicolons.*
category	The category associated with the bidding option	String [Cat1|Cat2]	Cat1 Cat2
category_name	Name of category	String	Category 1 Category 2
winnings	The number of blocks that the bidder has won in this category per PEA	Integer	3 *If the grouping includes 3 PEAs and the bidder won 2 blocks in the category in each PEA, the value will be 2.*
option	The specific blocks in the bidding option	String	C.D *Each block is separated from the next block with a period.*
assignment_round_bid	The bid amount submitted for the bidding option	Integer	129000 *Null for a bidding option where it is the only option for the bidder. Otherwise, 0 by default or the bid amount submitted by the bidder.*
random_number	The pseudo-random number associated with the bid used for tie-breaking purposes	Integer {1,8}	15435468 *Null for a bidding option where it is the only option for the bidder*

Field	Description	Data Type	Examples/*Notes*
clock_payment	The clock phase payment for the option, summed across products in the bidding option	Integer	2873499 *The clock phase payment is calculated as the number of blocks won by the bidder in the category in each PEA associated with the bidding option multiplied by the sum of the final clock phase prices of all PEAs associated with the option.*

2.3. Results

File name: assignment_results.csv

The Results file provides the assignment results for bidders, listing each bidding option that was won by each bidder (the "winning assignment") and its assignment phase payment, if any. The file also includes winning assignments that were pre-assigned to bidders in advance of the first assignment round, if any.

File Structure:

- CSV file (first row contains header)
- One record per winning assignment

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number	Integer	2 *This will be 0 for any pre-assigned bidding options.*
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN), which uniquely identifies a bidder	String [0-9]{10}	0003645844

Field	Description	Data Type	Example/*Notes*
region	The REAG of the Partial Economic Area(s) except for PEAs 1–20. For PEAs 1–20, "TOP 20"	String [TOP 20| REAG 1| REAG 2| REAG 3| REAG 4| REAG 5| REAG 6]	REAG 2 TOP 20
market	The PEA ID(s) associated with the bidding option	String	PEA001 PEA077;PEA138 *Multiple PEAs are separated with semicolons.*
market_name	The PEA name(s) associated with the bidding option	String	"New York, NY" "Portland, ME;Burlington, VT" *Multiple PEAs are separated with semicolons.*
category	The category associated with the bidding option	String [Cat1|Cat2]	Cat1 Cat2
category_name	Name of category	String	Category 1 Category 2
winnings	The number of blocks that the bidder has won in this category per PEA	Integer	3 *If the grouping includes 3 PEAs and the bidder won 2 blocks in the category in each PEA, the value will be 2.*
clock_payment	The clock phase payment for the option, summed across products in the bidding option	Integer	2873499 *The clock phase payment is calculated as the number of blocks won by the bidder in the category in each PEA associated with the bidding option multiplied by the sum of the final clock phase prices of all PEAs associated with the option.*
option_assigned	The specific blocks in the assigned bidding option	String	C.D *Each block is separated from the next block with a period.*

Field	Description	Data Type	Example/*Notes*
assignment_round_bid	The bid amount submitted for the bidding option	Integer	182000 *Null for a bidding option where it is the only option for the bidder*
vickrey_price	The Vickrey price of the bidder for its assignment	Integer	130000 *0 for a bidding option where it is the only option for the bidder or if no additional assignment payment is necessary*
core_adjustment	The additional payment above the bidder's Vickrey price that ensures no group of bidders is willing to pay more for an alternative assignment	Integer	26000 *0 for a bidding option where it is the only option for the bidder or if no additional assignment payment is necessary*
assignment_payment	The assignment phase payment for the winning assignment	Integer	156000 *0 for a bidding option where it is the only option for the bidder or if no additional assignment payment is necessary*
gross_payment	The gross payment amount for the winning assignment is the sum of the clock phase payment and the assignment phase payment, not taking into account any bidding credit discounts	Integer	3457884

2.4. Bidders

File name: assignment_bidders.csv

The bidders file provides the list of bidders with clock phase winnings and information about the bidding credit, if any, associated with each bidder.

File Structure:

- CSV file (first row contains header)
- One record for each bidder

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
bidding_credit	The bidding credit percentage associated with the bidder	Integer [0|15|25]	15 25 0 *0 = no bidding credit* *15 = 15% bidding credit* *25 = 25% bidding credit*
bidding_credit_type	Indicates the type of bidding credit for the bidder Rural = rural service provider bidding credit Small Business = small business bidding credit	String [Rural | Small Business]	Rural Small Business *Null if no bidding credit for the bidder*

2.5. Bidder Status

File name: assignment_bidder_status.csv

The Bidder Status file contains the cumulative payment amounts for each bidder after each round. The file contains one record for each bidder and each round.

File Structure:

- CSV file (first row contains header)
- One row per bidder-assignment round combination

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	110
round	Round number of the last posted round covered by the data, or 0 for data relating to pre-assignments	Integer	2
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN), which uniquely identifies a bidder	String [0-9]{10}	0003645844
gross_payment	The sum of the clock phase payments for all of the bidder's clock phase winnings and the bidder's assignment phase payments for all assignment rounds completed, not taking into account any bidding credit discounts	Integer	1100000000
discount	The discount to the gross amount for all markets calculated taking into account the small market cap (if applicable) and the overall cap	Integer	165000000 *Null if the bidder does not have a bidding credit*
net_payment	The gross payment minus the capped bidding credit discount	Integer	175000000 *Null if the bidder does not have a bidding credit*
discount_uncapped	The discount to the gross payment amount for all markets calculated without taking into account the small market cap (if applicable) or the overall cap	Integer	165000000 *Null if the bidder does not have a bidding credit*
discount_uncapped_small	The discount to the gross payment amount for small markets calculated for small markets without taking into account the small market cap	Integer	11000000 *Null if the bidder does not have a small business bidding credit*

2.6. Results by License

File name: results_by_license.csv

This file provides final license authorization price information for each license authorization assigned in the auction. It includes records for all license authorizations assigned to bidders.

File Structure:

- CSV file (first row contains header)
- One record per license won

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
license	The combined license name	String	PEA276-B *The license name is a combination of market and the block separated by "-".*
market	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"
block	The block within the PEA	String	A C
category	The license category	String [Cat1|Cat2]	Cat1 Cat2
category_name	Name of category	String	Category 1 Category 2
bidder	Bidder name	String	Company XYZ "ABC, Inc."
frn	The bidder's FCC Registration Number (FRN) which uniquely identifies the bidder	String [0-9]{10}	0003645844
bidding_credit_type	Indicates the type of bidding credit for the bidder that won the license	String [Rural | Small Business]	Small Business Rural *Null if no bidding credit for the bidder*

Field	Description	Data Type	Examples/*Notes*
bidding_credit_pct	The bidding credit percentage associated with the bidder	Numeric [0|15|25]	0 15 25 *0 = no bidding credit* *15 = 15% bidding credit* *25 = 25% bidding credit*
gross_license_price	The gross price of the license after apportioning the assignment payment	Integer	145592166
net_license_price	The net price of the license after apportioning the assignment payment and any bidding credit discount	Integer	123941798
effective_bidding_credit	Calculated as 100 times 1-(net_license_price/ gross_license_price)	Decimal	14.42 *Rounded to the nearest 2 decimal places*

2.7. Unassigned Licenses

File name: unassigned_licenses.csv

This file includes information about all the unassigned frequency blocks in the auction.

File Structure:

- CSV file (first row contains header)
- One record per unassigned frequency block

Field	Description	Data Type	Examples/*Notes*
auction_id	The FCC auction number for the auction	String	110
license	The combined license name	String	PEA134-E *The license name is a combination of market and the block separated by "-".*
market	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"

Field	Description	Data Type	Examples/*Notes*
block	The block within the PEA	String	A C
category	The license category	String [Cat1|Cat2]	Cat1 Cat2
category_name	Name of category	String	Category 1 Category 2

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.

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

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 are examples of valid decimals:

- 123.45

- -0.15
- .67
- 0.30

The following are 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 are examples of valid integers:

- 009
- 9
- 2147483647

The following are 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
- 103

Invalid values for example 1:

- 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.