



# CAF II Public Reporting System File Formats

August 27, 2018

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## 1. Introduction

This document provides the data file specifications for the files available from the Public Reporting System for the Connect America Fund Phase II Auction (Auction 903). Each file specification includes the format of the file and definitions of the data elements in the file, including a name, description, data type, examples and notes.<sup>1</sup> Data type definitions and notation rules are explained in an appendix to this document.

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<sup>1</sup> The terminology used in this document is defined in the *Auction 903 Procedures Public Notice (Connect America Fund Phase II Auction Scheduled for July 24, 2018; Notice and Filing Requirements and Other Procedures for Auction 903*, Public Notice, 33 FCC Rcd 1428 (2018) (*Auction 903 Procedures Public Notice*)) and explained in the CAF II Technical Guide, available at [www.fcc.gov/auction/903](http://www.fcc.gov/auction/903).

## 2. Announcements

**File name:** announcements.csv

This file includes public announcements made in the bidding system. It does not include all announcements that were available to bidders.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
announcement_time	Time of event	Date/Time	2014-10-27 14:16:53
subject	Subject of announcement	String	Auction Concluded
announcement	Text	String	"The Connect America Fund Phase II auction..."

## 3. Assignments

### 3.1. Winning Bidders

**File name:** winning\_bidders.csv

This file contains information about the winning bidders and their total assigned support amount. A bidder must have been assigned at least one item to be included in this file.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Bidder ID. Uniquely identifies a bidder and is the qualified bidder's FCC Registration Number.	String [0-9]{10}	0123456789

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Field	Description	Data Type	Examples/Notes
state	2-character code that uniquely defines a state, district, or territory	String	AL
total_assigned_support	Sum of the assigned_support for all the bidder's provisionally winning bids in the auction, in dollars and cents	Decimal	2000000.00
locations_assigned	Number of locations for all the items in the bidder's provisionally winning bids in the auction	Integer	1500

### 3.2. Total Assigned by State

**File name:** total\_assigned\_by\_state.csv

This files contains information regarding the total assigned support, number of winning bidders, and locations assigned for each state.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
state	2-character code that uniquely defines a state, district, or territory	String	AL
total_assigned_support	Sum of the assigned_support for all bidders' provisionally winning bids in the state in the auction, in dollars and cents	Decimal	9000000.00
winning_bidders	Number of bidders with provisionally winning bids in the state	Integer	18
locations_assigned	Number of locations for all the items in all bidders' provisionally winning bids in the state in the auction	Integer	3600

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### 3.3. Assigned Census Blocks

**File Name:** all\_assigned\_census\_blocks.csv

This file lists the individual census blocks in the items assigned.

**File Structure:**

- CSV file (first row contains header)
- One record per census block in an assigned item or package

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789
block_id	Census block ID: 2-character state FIPS code 3-character county FIPS code 6-character census tract code 1-character block group code 3-character block code	String	010010210001333
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001

### 3.4. Assigned Bids

**File Name:** prs\_all\_assigned\_bids.csv

This file contains a list of all assigned bids and the corresponding assigned support amounts. If a package, the items within the package are listed in the next file, Assigned Package Items. If only one item is assigned from a package bid, then this is considered an assignment of a single item, not a package assignment.

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Note: Multiple winning bid packages may be combined into a winning assignment package when bids at lower price points are needed in order to meet the minimum scale percentage of the "parent" carried-forward bid. The Bid Results file contains this cross-reference.

### File Structure:

- CSV file (first row contains header)
- One record per assigned item or package

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789
state	2-character code that uniquely defines a state, district, or territory	String	AL

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Field	Description	Data Type	Examples/Notes
assigned_id	Internal ID specified by the bidding system for assigned item or package	String	<p>rrr-ffffffff-ss-B#####  rrr-ffffffff-ss-C#####  rrr-ffffffff-ss-C#####-#####</p> <p>003-0123456789-IL-B00100001  004-0123456789-IL-C00100001  004-0123456789-IL-C00101399-00001</p> <p><i>The same as the bid_id from a bid or a carried forward bid</i></p> <p><i>If at least one of the bids assigned at a lower price point in the round is required to meet the minimum scale percentage of the carried-forward bid, then all assigned items that were assigned in the round that were part of the carried-forward (parent) bid are given the same assigned_id (the bid_id for the carried-forward bid).</i></p> <p><i>See Bid Results for complete description and examples.</i></p>



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Field	Description	Data Type	Examples/Notes
assigned_support_a mount	The support a bidder will receive for the assigned item or package, in dollars and cents (subject to FCC post-auction review)	Decimal	1200.00  <i>The amount of assigned support for the item or package. For packages, this is the sum of the assigned_support for each of the items in the package.</i>  <i>Note: An assigned package might be made up of multiple bids due to combining assignments for purpose of meeting the minimum scale percentage for the carried-forward bid.</i>
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011  <i>Null when assigned bid is a package</i>  <i>See the Assigned Package Items file, below, for the list of assigned items in a package.</i>
package_flag	Flag that indicates whether the assignment is for a package	String	Y = This field indicates there are at least two items assigned from a package bid in a given round. <i>The details about each item are listed in the Assigned Package Items file.</i>  <i>Null otherwise</i>
t+l_weight	Sum of the weights associated with the performance tier and latency combination of a bid	Integer	Valid values: 0, 15, 25, 40, 45, 65, 70, 90  <i>Null if package_flag = Y</i>
tier	Performance tier	String	Minimum, Baseline, Above Baseline, Gigabit  <i>Null if package_flag = Y</i>
latency	Latency	String	Low, High  <i>Null if package_flag = Y</i>
round_assigned	Round number the item or package was assigned	Integer	11

**3.5. Assigned Package Items**

**File Name:** prs\_all\_assigned\_package\_items.csv

This file contains a list of the items in the assigned packages. The file includes records only if there are at least two items assigned from a package bid in a given round. A single item assigned from a package in a given round is not considered a "package" for purpose of an assigned package.

**File Structure:**

- CSV file (first row contains header)
- One record per item in assigned packages

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789

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Field	Description	Data Type	Examples/Notes
assigned_id	Internal ID specified by the bidding system for assigned item or package	String	rrr-ffffffff-ss-B##### rrr-ffffffff-ss-C##### rrr-ffffffff-ss-C#####-##### 003-0123456789-IL-B00100001 004-0123456789-IL-C00100001 004-0123456789-IL-C00101399-00001  <i>The same as the bid_id from a bid or a carried forward bid</i>  <i>If at least one of the bids assigned at a lower price point in the round is required to meet the minimum scale percentage of the carried-forward bid, then all assigned items that were assigned in the round that were part of the carried-forward (parent) bid are given the same assigned_id (the bid_id for the carried-forward bid).</i>  <i>See Bid Results for complete description and examples.</i>
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001
t+l_weight	Sum of the weights associated with the performance tier and latency combination of a bid	Integer	Valid values: 0, 15, 25, 40, 45, 65, 70, 90
tier	Performance tier	String	Minimum, Baseline, Above Baseline, Gigabit

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Field	Description	Data Type	Examples/Notes
latency	Latency	String	Low, High
locations	Number of locations in item	Integer	7
round_assigned	Round number the item was assigned	Integer	11

### 4. Bids

#### 4.1. All Bids

**File name:** prs\_all\_bids.csv

Bids could be entered individually or as packages. Some of the information in this file repeats for every item in a package.

**File Structure:**

- CSV file (first row contains header)
- One record per item of any bids entered by a bidder or by the system according to proxy instructions

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
t+l_weight	Sum of the weights associated with the performance tier and latency combination of a bid	Integer	Valid values: 0, 15, 25, 40, 45, 65, 70, 90
tier	Performance tier	String	Minimum, Baseline, Above Baseline, Gigabit
latency	Latency	String	Low, High

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Field	Description	Data Type	Examples/Notes
price_point_bid	The price point for a given T+L weight for the item for the round, limited by the round's clock_pct. Max (price_point_entered, clock_pct).	Decimal	75.00  <i>This field is used in calculations for implied support bid (also known as "activity" before the budget clears) in a round.</i>  <i>This field must be the same for every item in the package.</i>
min_scale_pct	Minimum scale for a package bid, as a percentage.	Decimal	70.75 75  <i>Null (if bidding as a singleton)</i>  <i>This field must be the same for every item in the package.</i>
implied_support_bid	The dollar amount of implied support for the item based on price_point_bid, T+L_weight, and reserve_price. Before the budget clears, implied_support_bid is known as activity.	Decimal	900.00  <i>This amount will not include proxy instructions; it is limited by the base clock percentage and only pertains to the current round.</i>
implied_support_clock_pct	The dollar amount of implied_support_bid for items in the state where the bidder's price_point_bid = clock_pct, in dollars and cents.	Decimal	800.00  0 if the price_point_bid > clock_pct
implied_support_capped	A flag indicating whether implied_support_bid was capped by the reserve price	String [Y N]	Y = implied_support_bid capped by the reserve price. N = implied_support_bid not capped by the reserve price
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001

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Field	Description	Data Type	Examples/Notes																					
locations	Number of locations in item	Integer	7																					
bid_id	Internal bid ID specified by the bidding system for the item or package	String	<p>rrr-ffffffff-ss-B##### 003-0123456789-IL-B00100001</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Description</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>rrr</td> <td>Round #</td> <td>003</td> </tr> <tr> <td>ffffffff</td> <td>FRN</td> <td>0123456789</td> </tr> <tr> <td>ss</td> <td>State</td> <td>IL</td> </tr> <tr> <td>B</td> <td>B=bid</td> <td>B</td> </tr> <tr> <td>###</td> <td>3-digit #</td> <td>001 000 for proxy bid  <i>A 3-digit # is assigned sequentially for each successful upload by the bidder in the round. The numbers are assigned separately for each state, and the numbers start at 001 for each round.</i></td> </tr> <tr> <td>#####</td> <td>5-digit #</td> <td>00001  <i>A 5-digit # is assigned sequentially for each item or package in the successful upload or system-generated (proxy) bid. The numbering starts at 00001 for each upload.</i></td> </tr> </tbody> </table>	Field	Description	Example	rrr	Round #	003	ffffffff	FRN	0123456789	ss	State	IL	B	B=bid	B	###	3-digit #	001 000 for proxy bid  <i>A 3-digit # is assigned sequentially for each successful upload by the bidder in the round. The numbers are assigned separately for each state, and the numbers start at 001 for each round.</i>	#####	5-digit #	00001  <i>A 5-digit # is assigned sequentially for each item or package in the successful upload or system-generated (proxy) bid. The numbering starts at 00001 for each upload.</i>
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#####	5-digit #	00001  <i>A 5-digit # is assigned sequentially for each item or package in the successful upload or system-generated (proxy) bid. The numbering starts at 00001 for each upload.</i>																						
selection_number	Pseudo-random number for tie-breaking purposes: a number between 0 and 1 with 15 digits accuracy, represented as a string in the downloads to preserve trailing 0s	String	<p>0.123456789012345</p> <p><i>The same selection number applies to all bids in a package.</i></p> <p><i>When comparing tied bids, the bid with the highest selection_number wins the tie.</i></p>																					

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### 4.2. Carried-Forward Bids

**File name:** prs\_all\_carried\_forward\_bids.csv

This is the same format as All Bids but only will include the carried-forward bids for the round. Thus, the file will only include the "C" bid\_id values, and bid\_id values might have the optional 5-digit # for carried-forward remainders (see below for the bid\_id field).

The package\_id in a carried-forward bid will be the same as the package\_id from the bid in the previous round. This is the case even if the carried-forward bid does not include all items from the previous round bid.

**File Structure:**

- CSV file (first row contains header)
- One record per item of any carried-forward bids

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
t+l_weight	Sum of the weights associated with the performance tier and latency combination of a bid	Integer	Valid values: 0, 15, 25, 40, 45, 65, 70, 90
tier	Performance tier	String	Minimum, Baseline, Above Baseline, Gigabit
latency	Latency	String	Low, High
price_point_bid	The price point for a given T+L weight for the item for the round, limited by the round's clock_pct. Max (price_point_entered, clock_pct).	Decimal	75.00  <i>This field is used in calculations for implied support bid (also known as "activity" before the budget clears) in a round.</i>  <i>This field must be the same for every item in the package.</i>

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Field	Description	Data Type	Examples/Notes
min_scale_pct	Minimum scale for a package bid, as a percentage.	Decimal	70.75 75  <i>Null (if bidding as a singleton)</i>  <i>This field must be the same for every item in the package.</i>
implied_support_bid	The dollar amount of implied support for the item based on price_point_bid, T+L_weight, and reserve_price.  Before the budget clears, implied_support_bid is known as activity.	Decimal	900.00  <i>This amount will not include proxy instructions; it is limited by the base clock percentage and only pertains to bids for the current round.</i>
implied_support_clock_pct	The dollar amount of implied_support_bid for items in the state where the bidder's price_point_bid = clock_pct, in dollars and cents.	Decimal	800.00  <i>0 if the price_point_bid &gt; clock_pct</i>  <i>This amount includes bids at the base clock percentage entered according to proxy instructions.</i>
implied_support_capped	A flag indicating whether implied_support_bid was capped by the reserve price	String [Y N]	Y = implied_support_bid capped by the reserve price. N = implied_support_bid not capped by the reserve price
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001
locations	Number of locations in item	Integer	7



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Field	Description	Data Type	Examples/Notes																					
bid_id	Internal bid ID specified by the bidding system for the item or package	String	rrr-ffffffff-ss-C#####{-#####} 004-0123456789-IL-C00100001 004-0123456789-IL-C00101399-00001 004-0123456789-IL-C00101399-00002 <table border="1" data-bbox="976 438 1456 1094"> <thead> <tr> <th>Field</th> <th>Description</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>rrr</td> <td>Round #</td> <td>003</td> </tr> <tr> <td>ffffffff</td> <td>FRN</td> <td>0123456789</td> </tr> <tr> <td>ss</td> <td>State</td> <td>IL</td> </tr> <tr> <td>C</td> <td>C=carried-forward</td> <td>C</td> </tr> <tr> <td>#####</td> <td>8-digit #</td> <td>00100001 <i>The 8-digit # (from the 3-digit and 5-digit #s) from the bid_id of the bid in the previous round</i></td> </tr> <tr> <td>-#####</td> <td>5-digit # for carried-forward remainders, when applicable</td> <td>-00001 -00002 <i>Null if carried forward bid is not a remainder</i></td> </tr> </tbody> </table>	Field	Description	Example	rrr	Round #	003	ffffffff	FRN	0123456789	ss	State	IL	C	C=carried-forward	C	#####	8-digit #	00100001 <i>The 8-digit # (from the 3-digit and 5-digit #s) from the bid_id of the bid in the previous round</i>	-#####	5-digit # for carried-forward remainders, when applicable	-00001 -00002 <i>Null if carried forward bid is not a remainder</i>
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-#####	5-digit # for carried-forward remainders, when applicable	-00001 -00002 <i>Null if carried forward bid is not a remainder</i>																						
selection_number	Pseudo-random number for tie-breaking purposes: a number between 0 and 1 with 15 digits accuracy, represented as a string in the downloads to preserve trailing 0s	String	0.123456789012345  <i>The same selection number applies to all bids in a package.</i>  <i>When comparing tied bids, the bid with the highest selection_number wins the tie.</i>																					

**4.3. Bid Results**

**File Name:** prs\_all\_bid\_results.csv

This file contains information about items for which a bidder bid either individually or as part of a package. The bids may have been submitted by the bidder, by the system in accordance with proxy instructions, or carried forward.

For rounds before the budget clears and for the clearing round, there is one record per item in a bid either submitted by the bidder or by the system according to proxy instructions.

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For rounds after the budget clears, there is one record for each item in a carried-forward bid. If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned due to the carried-forward bid. (This can only happen when the minimum scale percentage of the bid at the lower price point cannot be met, but the minimum scale percentage of the carried-forward bid can be met.) If the bidder did not submit a bid for an item at a lower price point than the carried-forward bid, this file will show the information from the carried-forward bid.

### File Structure:

- CSV file (first row contains header)
- One record per item (see description above for additional detail)

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder's FCC Registration Number	String [0-9]{10}	0123456789
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
t+l_weight	Sum of the weights associated with the performance tier and latency combination of a bid	Integer	Valid values: 0, 15, 25, 40, 45, 65, 70, 90
tier	Performance tier	String	Minimum, Baseline, Above Baseline, Gigabit
latency	Latency	String	Low, High

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Field	Description	Data Type	Examples/Notes
price_point_bid	The price point for the item for the round, limited by the round's clock_pct.  Max (price_point_entered, clock_pct).	Decimal	75.00  <i>This field is used in calculations for implied support (also known as "activity" before the budget clears) in a round.</i>  <i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i>  <i>If the item is assigned as part of a package that is a combination of new and carried-forward bids, this field will <u>not</u> be the same for every item in the assigned package (with the same assigned_id).</i>
bid_clock_pct_flag	A flag indicating whether the price point bid equals the round's base clock percentage	String [Y N]	Y: price_point_bid = clock_pct N: price_point_bid > clock_pct  <i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i>  <i>If the item is assigned as part of a package that is a combination of new and carried-forward bids, this field will <u>not</u> be the same for every item in the assigned package (with the same assigned_id).</i>

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Field	Description	Data Type	Examples/Notes
min_scale_pct	Minimum scale for a package bid, as a percentage.	Decimal	<p>70.75</p> <p><i>Null (if bidding as a singleton)</i></p> <p><i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i></p> <p><i>If the item is assigned as part of a package that is a combination of new and carried-forward bids, this field will <u>not</u> be the same for every item in the assigned package (with the same assigned_id).</i></p>
implied_support_bid	<p>The dollar amount of implied support for the item based on price_point_bid, t+l_weight, and reserve_price.</p> <p>Before the budget clears, implied_support_bid is known as activity.</p>	Decimal	<p>900.00</p> <p><i>This amount will not include proxy instructions; it is limited by the base clock percentage and pertains to bids for the current round.</i></p> <p><i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i></p>

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Field	Description	Data Type	Examples/Notes		
bid_id	Internal bid ID specified by the bidding system for the item or package	String	rrr-ffffffff-ss-B##### 003-0123456789-IL-B00100001		
			Field	Description	Example
			rrr	Round #	003
			ffffffff	FRN	0123456789
			ss	State	IL
			B	B=bid	B
###	3-digit #	001 000 for system-generated proxy bid  <i>A 3-digit # is assigned sequentially for each successful upload by the bidder in the round. The numbers are assigned separately for each state, and the numbers start at 001 for each round.</i>			
#####	5-digit #	00001  <i>A 5-digit # is assigned sequentially for each item or package in the successful upload or system-generated (proxy) bid. The numbering starts at 00001 for each upload.</i>			

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Field	Description	Data Type	Examples/Notes
my_assigned_status	A flag indicating whether the item was assigned	String [1 2 3]	<p>1 = not assigned                  2 = provisionally assigned to the bidder                  3 = provisionally assigned to another bidder</p> <p><i>Will be 1 before the budget clears                  Will be 1, 2, or 3 after the budget clears</i></p> <p><i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i></p>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
not_assigned_reason	Reason why the item was assigned to another bidder or not assigned. Only applies if the bidder bid for the item in the round, and my_assigned_status = 1 or 3.	String	<p>Before the budget clears:</p> <ul style="list-style-type: none"> <li>• "Budget not cleared"</li> </ul> <p>Clearing round only:</p> <ul style="list-style-type: none"> <li>• "Insufficient budget" – Item not selected as the bid would cause the budget to be exceeded.</li> </ul> <p>Clearing round and after the budget clears:</p> <ul style="list-style-type: none"> <li>• "2+ bids" – there was competition at the base clock percentage, including this bid</li> <li>• "Outbid assigned" – another bidder bid lower and won the item</li> <li>• "Outbid not assigned" – the bidder didn't bid at the base clock percentage, at least one other bidder did bid at the base clock percentage, and the item was not yet assigned.</li> <li>• "Tie" – no bidders bid the base clock percentage, another bidder's bid with same bid percentage was considered before the bid (based on the selection number) and won the item</li> <li>• "Minimum scale percentage not met" – this item is in a package bid, and the scale percentage could not be met for that package bid</li> </ul> <p><i>Null if my_assigned_status is 2 (assigned to bidder)</i></p> <p><i>If the bidder placed a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned due to the carried-forward bid.</i></p>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
assigned_support	The support a bidder will receive for a provisionally winning bid, in dollars and cents (subject to FCC post-auction review).	Decimal	<p>1200.00</p> <p><i>Null if before the budget clears, if the bidder did not win the item, or if the item has not yet been assigned to any bidder.</i></p> <p><i>Note: Support amounts are determined using a second-price rule.</i></p>



CAF II Public Reporting System File Formats

<p>assigned_support_type</p>	<p>A flag indicating how the assigned support was set for a winning bid</p>	<p>String [1 2 3 4 5]</p>	<p>1 = Set by another bid: This winning bid was the lowest bid for the item in this round, based on price point and selection number. The assigned support was set based on the second highest bid for the item (which could be a tied bid). This value only applies if the assigned support is not otherwise capped by the reserve price. For the clearing round, this value is only applicable if the second highest bid is less than or equal to the clearing_price_point.</p> <p>2 = Capped by last round's base clock percentage: Only applicable for rounds after the clearing round. This winning bid was the lowest bid for the item, based on price point and selection number. No other bids exist for the item except for carried-forward bids. Note that the winning bid can also be a carried-forward bid. This value only applies if the assigned support is not otherwise capped by the reserve price.</p> <p>3 = Capped by the clearing price point: Only applicable for the clearing round. This winning bid was the lowest bid for the item, based on the price point and selection number. No other bids exist for the item that are less than or equal to the clearing price point. Note that the winning bid can also be equal to the clearing price point. This value only applies if the assigned support is not otherwise capped by the reserve price.</p> <p>4 = Set by winning bid: This winning bid was not the lowest bid for the item in the round, based on the price point and selection number. Lower bid(s) exist (at lower price points or the same price point with a higher selection number), but the lower bid did not win</p>
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CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
			<p>the item because the item was part of a package bid and either the minimum scale percentage for the package was not met or assigning the uncontested items from the package would have caused the budget to have been exceeded. This value only applies if the assigned support is not otherwise capped by the reserve price.</p> <p>5 = Capped by reserve price: The assigned support for this winning bid is equal to the reserve price for the item.</p> <p><i>Null if item has not been assigned to the bidder</i></p> <p><i>If the bidder placed a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned due to the carried-forward bid.</i></p> <p><i>If the item is assigned as part of a package that is a combination of new and carried-forward bids, this field will <u>not</u> be the same for every item in the assigned package (with the same assigned_id).</i></p>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
price_point_assigned	The price point that correlates to the assigned_support (unless assigned support is capped by the reserve price)	Decimal	<p>76.50</p> <p><i>Null if item has not been assigned to the bidder</i></p> <p><i>Null if assigned support is capped by the reserve price</i></p> <p><i>If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i></p> <p><i>If the item is assigned as part of a package that is a combination of new and carried-forward bids, this field will <u>not</u> be the same for every item in the assigned package (with the same assigned_id).</i></p>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes																					
assigned_id	Internal ID specified by bidding system for assigned package (or item if not assigned as part of a package)	String	<p>rrr-ffffffff-ss-B#####                      rrr-ffffffff-ss-C#####                      rrr-ffffffff-ss-C#####-#####  <i>Null if not assigned</i></p> <p>004-0123456789-IL-B00200003                      004-0123456789-IL-C00100001                      004-0123456789-IL-C00101399-00001</p> <p><i>The same as the bid_id from a bid or a carried-forward bid. If the bidder submitted a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned due to the carried-forward bid.</i></p> <p><i>If at least one of the bids assigned at a lower price point in the round is required to meet the minimum scale percentage of the carried-forward bid, then all assigned items that were assigned in the round that were part of the carried-forward (parent) bid are given the same assigned_id. The assigned_id will be the same as bid_id for the carried-forward bid.</i></p> <table border="1"> <thead> <tr> <th>Field</th> <th>Description</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>rrr</td> <td>Round #</td> <td>003</td> </tr> <tr> <td>ffffffff</td> <td>FRN</td> <td>0123456789</td> </tr> <tr> <td>ss</td> <td>State</td> <td>IL</td> </tr> <tr> <td>B or C</td> <td>B=bid C=carried-forward</td> <td>B C</td> </tr> <tr> <td>#####</td> <td>8-digit #</td> <td>00100001  <i>B: the 8-digit # (from the 3-digit and 5-digit #s) from the bid_id for the uploaded bid or system-generated bid (proxy)</i>  <i>C: the 8-digit # from the bid_id of the bid in the previous round</i></td> </tr> <tr> <td>#####</td> <td>5-digit # for carried-forward remainders, when applicable</td> <td>-00001 -00002 <i>Null if carried forward bid is not a remainder</i></td> </tr> </tbody> </table>	Field	Description	Example	rrr	Round #	003	ffffffff	FRN	0123456789	ss	State	IL	B or C	B=bid C=carried-forward	B C	#####	8-digit #	00100001  <i>B: the 8-digit # (from the 3-digit and 5-digit #s) from the bid_id for the uploaded bid or system-generated bid (proxy)</i>  <i>C: the 8-digit # from the bid_id of the bid in the previous round</i>	#####	5-digit # for carried-forward remainders, when applicable	-00001 -00002 <i>Null if carried forward bid is not a remainder</i>
Field	Description	Example																						
rrr	Round #	003																						
ffffffff	FRN	0123456789																						
ss	State	IL																						
B or C	B=bid C=carried-forward	B C																						
#####	8-digit #	00100001  <i>B: the 8-digit # (from the 3-digit and 5-digit #s) from the bid_id for the uploaded bid or system-generated bid (proxy)</i>  <i>C: the 8-digit # from the bid_id of the bid in the previous round</i>																						
#####	5-digit # for carried-forward remainders, when applicable	-00001 -00002 <i>Null if carried forward bid is not a remainder</i>																						

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
assigned_id_combined	Flag that indicates whether the assigned_id of a new bid is the same as the assigned_id of a carried-forward bid. In effect, the new bid and carried-forward bid are combined into one winning bid. This will occur when a carried-forward package bid is assigned and it could not have been assigned without at least one item from a subsequent bid at a lower price point.	String	<p>Y = The assigned_id of a new bid is the same as the assigned_id of a carried-forward bid.</p> <p><i>Null otherwise</i></p> <p><i>All assigned items in the new bid(s) and the carried-forward bid will have the same value for assigned_id and will have this flag set to Y, but the price_point_bid values will be different.</i></p>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
package_biddable_next_round	A flag indicating whether the item can be part of a package next round.	String [Y P X N C]	<p>Before the budget clears:</p> <p>Y = Item can be bid on as part of a package bid in the next round.</p> <p>X = item can no longer be bid on in the next round. <i>(Either (a) the bidder's T+L weight is no longer feasible or (b) the bidder is no longer eligible to place bids in the auction (its maximum activity on new CBGs in the next round = 0))</i></p> <p>After the budget clears:</p> <p>P = Item can be bid on as part of a package in the next round, provided it is combined with one or more items from the same package_id from this round.</p> <p>N = Item can only be bid as a singleton in the next round. <i>(Either (a) the item was bid as a singleton during the current round, or (b) it was bid as a package in the current round and at least one item in this package (package_id) was assigned in this round.)</i></p> <p>C = No bid can be placed for this item in the next round, but it will exist as part of a carried-forward bid in the next round. <i>(Price point of bid in this round = this round's base clock percentage = T+L weight + 1)</i></p> <p>X = No bid can be placed for this item in the next round. <i>(Price point of bid in this round &lt; this round's base clock percentage)</i></p> <p><i>Null = Item is already assigned</i></p> <p><i>If the bidder placed a bid for an item at a lower price point than the carried-forward bid, this file will show information associated with the bid at the lower price point unless the item is assigned as part of the carried-forward package bid.</i></p>

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001
locations	Number of locations in item	Integer	7
selection_number	Pseudo-random number for tie-breaking purposes: a number between 0 and 1 with 15 digits accuracy, represented as a string in the downloads to preserve trailing 0s	String	0.123456789012345  <i>The same selection number applies to all bids in a package.</i>  <i>When comparing tied bids, the bid with the highest selection_number wins the tie.</i>

## 5. Round Info and Statuses

### 5.1. Round Summary

**File Name:** round\_summary.csv

The Round Summary report provides high-level status of each round.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
round_start_time	Date and time the round started	Date/Time	2014-10-27 14:16:53
round_stop_time	Date and time the round ended (not including recess)	Date/Time	2014-10-27 15:16:53
clock_pct	Base clock percentage for the round	Decimal	90.00
clock_decrement_pct	Decrement percentage for the round	Decimal	5.00

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
max_scale_pct	Maximum percentage that bidders can enter as part of a package bid that indicates the smallest fraction of the implied support associated with the bid that the bidder is willing to accept	Decimal	75.00
max_switch_pct	A limit on how much of a bidder's activity can come from bids for items the bidder did not bid for at the previous round's base clock percentage, expressed as a percentage	Decimal	10.00  Null for rounds after the clearing round Null for Round 1
budget_cleared	A flag indicating whether the budget has cleared	String [Y N]	Y = the budget has cleared N = the budget has not cleared
clearing_price_point	The highest price point in the clearing round at which the aggregate cost adjusted for the assigned areas and second price rule is less than or equal to the budget	Decimal	78.35  Null for all rounds except the clearing round
aggregate_cost	Sum of all implied support amounts for all items in the auction that are part of at least one bid at the round's base clock percentage, in dollars and cents. Each item is counted once using the most expensive tier and latency combination.	Decimal	2000000000.00  Null for rounds after the clearing round
over_budget	The difference between aggregate_cost and annual_budget	Decimal	200000000.00  Null for the clearing round and for all rounds after the clearing round
total_assigned_support	Sum of the assigned_support for all the bidders' provisionally winning bids in the auction to-date, in dollars and cents	Decimal	1600000000.00  Null before the budget clears



CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
max_implied_support_carried_forward	Sum of all carried-forward implied support amounts for all items in the auction that are part of at least one carried-forward bid, in dollars and cents. Each item is counted once using the most expensive tier and latency combination.	Decimal	30000000.00  Null before the budget clears
remaining_budget	The amount of budget that remains unassigned, calculated as annual_budget – total_assigned_support – max_implied_support_carried_forward	Decimal	10000000.00  Null before the budget clears
qualified_bidders	Number of qualified bidders in the auction	Integer	220
eligible_bidders	Number of qualified bidders in the auction that can bid for at least one item in the round (or can become a provisionally winning bidder with a carried forward bid)	Integer	190
active_bidders	Number of qualified bidders in the auction with bids other than carried-forward bids in the round	Integer	180
eligible_bidders_next_round	Number of qualified bidders in the auction that can bid for at least one item in the next round (or can become a provisionally winning bidder with a carried forward bid)	Integer	148
winning_bidders	Number of bidders in the auction with provisionally winning bids in the auction to-date	Integer	42
max_winning_bidders	Number of bidders in the auction that are either eligible bidders next round or winning bidders or both (counting each bidder only once)	Integer	150
total_items	Number of items in the auction	Integer	30033 <i>Does not change round-to-round</i>

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
items_available	Number of items in the auction that are available for bidding by any bidder in the round, or in a carried forward bid	Integer	20000
items_assigned	Number of items in the auction that have been assigned to any bidder	Integer	500
items_unassigned	Number of items in the auction that cannot be assigned to any bidder	Integer	100
items_available_next_round	Calculated as total_items – items_assigned – items_unassigned in the auction	Integer	2500
total_locations	Number of locations for all the items in the auction	Integer	974223 <i>Does not change round-to-round</i>
locations_available	Number of locations associated with items_available in the auction	Integer	200000
locations_assigned	Number of locations associated with items_assigned in the auction	Integer	5000
locations_unassigned	Number of locations associated with items_unassigned in the auction	Integer	1000
locations_available_next_round	Number of locations associated with items_available_next_round in the auction	Integer	294000

### 5.2. State Summary

**File Name:** state\_summary.csv

This file provides high-level status of each state in each round.

**File Structure:**

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

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
state	2-character code that uniquely defines a state, district, or territory	String	AL
aggregate_cost	Sum of all implied support amounts for all items in the state that are part of at least one bid at the round's base clock percentage, in dollars and cents. Each item is counted once using the most expensive tier and latency combination.	Decimal	2000000000.00  <i>Null for rounds after the clearing round</i>
total_assigned_support	Sum of the assigned_support for all the bidders' provisionally winning bids in the state to-date, in dollars and cents	Decimal	1600000000.00  <i>Null before the budget clears</i>
max_implied_support_carried_forward	Sum of all carried-forward implied support amounts for all items in the state that are part of at least one carried-forward bid, in dollars and cents. Each item is counted once using the most expensive tier and latency combination.	Decimal	30000000.00  <i>Null before the budget clears</i>
qualified_bidders	Number of qualified bidders for the state	Integer	100
eligible_bidders	Number of qualified bidders that can bid for at least one item in the state in the round (or can become a provisionally winning bidder with a carried forward bid)	Integer	290
active_bidders	Number of qualified bidders with bids other than carried-forward bids in the state in the round	Integer	180
eligible_bidders_next_round	Number of qualified bidders that can bid for at least one item in the state in the next round (or can become a provisionally winning bidder with a carried forward bid)	Integer	148

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
winning_bidders	Number of bidders with provisionally winning bids in the state to-date	Integer	42
max_winning_bidders	Number of bidders that are either eligible bidders next round or winning bidders or both in the state (counting each bidder only once)	Integer	150
total_items	Number of items in the state	Integer	769 <i>Does not change round-to-round</i>
items_available	Number of items in the state that are available for bidding by any bidder in the round, or in a carried forward bid	Integer	473
items_assigned	Number of items in the state that have been assigned to any bidder	Integer	560
items_unassigned	Number of items in the state that cannot be assigned to any bidder	Integer	209
items_available_next_round	Calculated as total_items – items_assigned – items_unassigned in the state	Integer	473
total_locations	Number of locations for all the items in the state	Integer	12258 <i>Does not change round-to-round</i>
locations_available	Number of locations associated with items_available in the state	Integer	11547
locations_assigned	Number of locations associated with items_assigned in the state	Integer	3122
locations_unassigned	Number of locations associated with items_unassigned in the state	Integer	1641
locations_available_next_round	Number of locations associated with items_available_next_round in the state	Integer	7495

### 5.3. Bidder Status

**File Name:** all\_bidder\_status.csv

## CAF II Public Reporting System File Formats

This file contains summary information for each bidder for each round. The file contains the total number of items, locations, and implied support for all of its bids, summed across all states, at the price point bid and at the clock percentage. It also includes the number of items that are in proxy instructions for the next round. This file includes the bidder’s activity limits for the round ("max" fields this round) and for the next round ("max" fields next round), when they apply. This file includes the assigned support once the budget clears; and the number of items, locations, and implied support for its carried-forward bids for rounds after the budget clears.

### File Structure:

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	"903"
round	Round number	Integer	11
bidder	Qualified bidder name	String	Bidding Company "Service Provider, Inc"
frn	Qualified bidder’s FCC Registration Number	String [0-9]{10}	"0123456789"
max_activity_this_round	The maximum amount of activity (measured in terms of implied support) for the bidder’s bids in this round, in dollars and cents	Decimal	50000000.00  <i>Null for Round 1</i>  <i>Null for rounds after the clearing round</i>  <i>Equal to the sum of the last round’s implied_support_bid (or 0 for items when the bidder’s T+L weight is no longer feasible)</i>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
max_activity_new_items_this_round	The maximum amount of activity (measured in terms of implied support) the bidder can have in the current round for items that it did not bid for at the base clock percentage in the previous round, in dollars and cents	Decimal	4000000.00  <i>Null for Round 1</i>  <i>Null for rounds after the clearing round</i>  <i>Equal to max_switch_percentage times (the sum of the last round's implied_support_clock_pct for items where price_point_bid = clock_pct and the bidder's T+L weight is no longer feasible)</i>
total_assigned_support_previous_rounds	Sum of the assigned_support for all the bidder's provisionally winning bids in the auction in prior rounds, in dollars and cents	Decimal	1600000.00  <i>Null before the budget clears</i>
implied_support_carried_foward	Sum of the implied support amounts for items in the bidder's carried-forward bids, in dollars and cents. Carried-forward bids are always at last round's base clock percentage.	Decimal	300000.00 0.00  <i>Null before the budget clears</i>
implied_support_bid	Sum of the dollar amounts of implied support for items in the bidder's bids based on price_point_bid, T+L_weight, and reserve_price.  Before the budget clears, implied_support_bid is known as activity.	Decimal	900.00  <i>This amount will not include proxy instructions; it is limited by the base clock percentage and only pertains to bids for the current round.</i>
implied_support_clock_pct	Sum of implied_support_bid for items where the bidder's price_point_bid = clock_pct, in dollars and cents.  Before the budget clears, implied_support_clock_pct is known as activity at the base clock percentage.	Decimal	120000.00 0.00

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
items_carried_forward	Number of items in the bidder's carried-forward bids	Integer	1000 0 <i>Null before the budget clears</i>
items_in_bids	Number of items in the bidder's bids	Integer	4500 0 <i>This does not include any carried-forward bids.</i>
items_clock_pct	Number of items in the bidder's bids where price_point_bid = clock_pct	Integer	4000 0
items_proxy_instructions	The number of items in the bidder's proxy instructions that were not assigned in the processed round.	Integer	3000 0
locations_carried_forward	Number of locations for the items in the bidder's carried-forward bids	Integer	300 0 <i>Null before the budget clears</i>
locations_in_bids	Number of locations for the items in the bidder's bids submitted for the round	Integer	800 0
locations_clock_pct	Number of locations for items in the bidder's bids where price_point_bid = clock_pct	Integer	700 0
implied_support_carried_forward_next_round	Sum of the implied support amounts for the items in the bidder's bids that will be carried forward to the next round, in dollars and cents. The carried-forward bids in the next round will be at this round's base clock percentage.	Decimal	300000.00 0.00 <i>Null before the budget clears</i>
total_assigned_support	Sum of the assigned_support for all the bidder's provisionally winning bids in the auction to-date, in dollars and cents	Decimal	2000000.00 <i>Null before the budget clears</i>

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
max_activity_next_round	The maximum amount of activity (measured in terms of implied support) for the bidder's bids in the next round, in dollars and cents	Decimal	45000000.00  <i>Null for the clearing round and for rounds after the clearing round.</i>  <i>Equal to the sum of this round's implied_support_bid (or 0 for items when the bidder's T+L weight is no longer feasible)</i>
max_activity_new_items_next_round	The maximum amount of activity (measured in terms of implied support) the bidder can have in the next round for items that it did not bid for at the base clock percentage in the current round, in dollars and cents	Decimal	3700000.00  <i>Null for the clearing round and for rounds after the clearing round.</i>  <i>Equal to max_switch_percentage times (the sum of the round's implied_support_clock_pct for items where price_point_bid = clock_pct and the bidder's T+L weight is no longer feasible)</i>



**5.4. Item Status**

**File Name:** item\_status.csv

For each round, this file contains all items for a state.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001
locations	Number of locations in item	Integer	7
reserve_price	Reserve price for item in dollars and cents	Decimal	3640.00
bids_for_item	Total number of bids for this item at the base clock percentage, counting all T+L weights across all bidders	String	0 1 2+  <i>Null if item is assigned or no longer available after the budget clears</i>
assigned_status	A flag indicating whether the item was assigned	String [Y N]	Y = assigned N = not assigned  <i>Null before the budget clears or if item is no longer available</i>
assigned_bidder	When assigned_status = Y, this is the name of the bidder to whom the item is assigned.	String	Bidding Company "Service Provider, Inc"  <i>Null when assigned_status = N</i>

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
assigned_frn	When assigned_status = Y, this is the FRN of the bidder to whom the item is assigned.	String [0-9]{10}	0123456789  <i>Null when assigned_status = N</i>
item_available	A flag indicating whether the item can be assigned	String [Y N]	Y = item is available (i.e., can be assigned)  N = item is not available  <i>Before the budget clears it is always "Y".</i>  <i>After the budget clears, it is "Y" if the item is in at least one carried-forward bid. Otherwise, it is "N".</i>

### 5.5. Item Support Ranges

**File Name:** all\_items\_support\_ranges.csv

This file contains the range of implied support amounts in dollars and cents corresponding to the T+L weights and the price points that could be entered for each item.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
round	Round number	Integer	11
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0208011
max_support_t+l_0	Implied support for T+L_weight = 0 at the base clock percentage of the last round minus 0.01%	Decimal	12913.77
min_support_t+l_0	Implied support for T+L_weight=0 at this round's base clock percentage if it is at least 1%	Decimal	12177.00

CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
max_support_t+l_15	Implied support for T+L_weight = 15 at the base clock percentage of the last round minus 0.01%	Decimal	11068.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_15	Implied support for T+L_weight=15 at this round's base clock percentage if it is at least 16%	Decimal	10332.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_25	Implied support for T+L_weight = 25 at the base clock percentage of the last round minus 0.01%	Decimal	9838.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_25	Implied support for T+L_weight=25 at this round's base clock percentage if it is at least 26%	Decimal	9102.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_40	Implied support for T+L_weight = 40 at the base clock percentage of the last round minus 0.01%	Decimal	7993.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_40	Implied support for T+L_weight=40 at this round's base clock percentage if it is at least 41%	Decimal	7257.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_45	Implied support for T+L_weight = 45 at the base clock percentage of the last round minus 0.01%	Decimal	7378.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_45	Implied support for T+L_weight=45 at this round's base clock percentage if it is at least 46%	Decimal	6642.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_65	Implied support for T+L_weight = 65 at the base clock percentage of the last round minus 0.01%	Decimal	4918.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_65	Implied support for T+L_weight=65 at this round's base clock percentage if it is at least 66%	Decimal	4182.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_70	Implied support for T+L_weight = 70 at the base clock percentage of the last round minus 0.01%	Decimal	4303.77 <i>Null if the T+L weight is no longer feasible</i>

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Field	Description	Data Type	Examples/Notes
min_support_t+l_70	Implied support for T+L_weight=70 at this round's base clock percentage if it is at least 71%	Decimal	3567.00 <i>Null if the T+L weight is no longer feasible</i>
max_support_t+l_90	Implied support for T+L_weight = 90 at the base clock percentage of the last round minus 0.01%	Decimal	1720.77 <i>Null if the T+L weight is no longer feasible</i>
min_support_t+l_90	Implied support for T+L_weight=90 at this round's base clock percentage if it is at least 91%	Decimal	1107.00 <i>Null if the T+L weight is no longer feasible</i>
reserve_price	Reserve price for item in dollars and cents	Decimal	3640.00
clock_pct_last_round	Announced base clock percentage for last round	Decimal	170.00 <i>Null for Round 1 data</i>
clock_pct	Announced base clock percentage for this round	Decimal	165.00
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
locations	Number of locations in item	Integer	7

## 6. Other

### 6.1. All Items

**File Name:** all\_items.csv

This file defines the individual items (census block group (CBG) aggregations of census blocks eligible for support) in the auction.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction  Item ID: 2-character state abbreviation- 3-character county FIPS code- 6-character census tract code 1-character block group code	String	AL-001-0210001
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID: 2-character state FIPS code 3-character county FIPS code 6-character census tract code 1-character block group code	String	010010210001
reserve_price	Reserve price for item in dollars	Decimal	12300.00  <i>Stored as a decimal with #.00</i>
locations	Number of locations in item	Integer	3400

### 6.2. Unassigned Items

**File Name:** unassigned\_items.csv

This file contains list of unassigned items.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0210001
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001
locations	Number of locations in item	Integer	3400

### 6.3. Eligible Census Blocks

**File Name:** eligible\_census\_blocks.csv

This file lists the individual census blocks eligible for support that are aggregated to the census block group level for bidding.

**File Structure:**

- CSV file (first row contains header)
- One record per eligible census block

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
block_id	Census block ID: 2-character state FIPS code 3-character county FIPS code 6-character census tract code 1-character block group code 3-character block code	String	010010210001333
item	ID for item (aggregation of blocks eligible for support in a CBG) in auction	String	AL-001-0210001
state	2-character code that uniquely defines a state, district, or territory	String	AL
county	Name of the county	String	Autauga

## CAF II Public Reporting System File Formats

Field	Description	Data Type	Examples/Notes
census_id	For CAF-II, this is the census block group (CBG) ID	String	010010210001

### 6.4. Auction Summary

**File Name:** auction\_summary.csv

This file provides a high-level status of the auction.

**File Structure:**

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

Field	Description	Data Type	Examples/Notes
auction_id	The FCC auction number for this auction	String	903
auction_description	Name or description of this auction	String	Connect America Fund Phase II
rounds	Total number of rounds	Integer	19
date_opened	Date the auction commenced	Date	2018-07-24
date_closed	Date the auction concluded	Date	2018-08-21
bidding_days	Number of days the auction was active	String	19 days
annual_budget	CAF-II budget, reported on an annual basis	Decimal	198000000.00
total_assigned_support	Sum of the assigned_support for all bidders' provisionally winning bids in the auction, in dollars and cents	Decimal	148832986.43
remaining_budget	The amount of the budget that remains unassigned. This is calculated as annual_budget – total_assigned_support	Decimal	49167013.57
qualified_bidders	Number of qualified bidders for the auction	Integer	220
winning_bidders	Number of bidders with provisionally winning bids in the auction	Integer	103
total_items	Number of items in the auction	Integer	30033

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Field	Description	Data Type	Examples/Notes
items_assigned	Number of items in the auction that have been assigned to any bidder	Integer	16950
items_unassigned	Number of items that were unassigned at the end of the auction	Integer	13083
total_locations	Number of locations for all the items in the auction	Integer	974223
locations_assigned	Number of locations associated with items_assigned in the auction	Integer	713176
locations_unassigned	Number of locations associated with items_unassigned in the auction	Integer	261047

### 7. 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 spaces. The following list has examples of valid strings:

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



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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 (not used in the CAF II bidding system)

**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 digits long.

The following list has examples of valid Integers:

- 009
- 9
- 2147483647

The following list has examples of *invalid* Integers:

- -009
- +009

**Decimal:** Numeric type that is used to specify a numeric value that may contain a fractional component. The decimal numbers in the CAF II bidding system use 2 decimal places.

- It's assumed that any decimals defined in this document are unsigned and never include a (+) plus or (-) minus sign. Any signed decimals containing a + or - are considered invalid.

The following list has examples of valid decimals:

- 45
- 0.15
- .67

### 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:

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- 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 spaces.
  - 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

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- 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 Value for example 7:

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