

FCC Unlicensed Wireless Microphone Registration Approval System  
Download Access Instructions  
May 5, 2012

The instructions for downloading data from the FCC's system for approving venues that use unlicensed wireless microphones for registration in the TV white space database systems (Unlicensed Wireless Microphone Registration records) are as follows. Additional documentation is provided in this document after the download instructions on this page.

I. The Unlicensed Wireless Microphone Registration records are maintained in the Commission's Universal Licensing System (ULS)

II. Download procedure (accesses the "daily file" of these records (the previous day's transactions) from ULS)

1. At the ULS Home Page at [wireless.fcc.gov/uls](http://wireless.fcc.gov/uls), on the left side of the page, click on the 'Daily Transaction Files' link under the ULS Downloads heading  
Note: the 'Databases' link under the ULS Downloads heading will take you to the page that contains a complete dump of all of the unlicensed wireless microphone registration data records (but this file is only generated once a week on Sundays).
2. From the 'Daily Transaction Files' page, scroll to the bottom of the screen to the 'Unlicensed Wireless Microphone Registration' section
3. For the documentation on formats, click on either the pdf or the Word version link
4. To download the data file, click on the link for the day of the week that you want to download
5. When prompted "Open" the file
6. WinZip will extract the individual dat files for you.

III. File Format for the Download Files for the Unlicensed Wireless Microphone Registrations

The daily file format is as follows:

a\_um\_sun.zip  
a\_um\_mon.zip  
a\_um\_tue.zip  
a\_um\_wed.zip  
a\_um\_thu.zip  
a\_um\_fri.zip  
a\_um\_sat.zip

## **Public Access Files for the Unlicensed Wireless Microphone Registrations**

The Universal Licensing System (ULS) public access files for the unlicensed wireless microphone registrations are available for download. These application data files are downloaded as a zipped file. Any of the popular "zip" utilities can be used to unzip the file. Unzipping a downloaded file causes a number of data files to be stored on your computer. Each zipped file contains a set of data files named *xx.dat* where *xx* are 2 unique characters to indicate the content of the specific data file.

***Zipped Files.*** The zipped file contains either complete application data or application data from the previous day's transactions. The name of each downloaded file identifies its content. The naming convention for complete files for the unlicensed wireless microphone registrations is *a\_um.zip* where *a* indicates the content ("a" for applications), *um* indicates the service (unlicensed wireless microphones). The naming convention for daily application files for the unlicensed wireless microphone registrations is *a\_um\_ddd.zip* where *a* indicates the content ("a" for applications), *um* indicates the service (unlicensed wireless microphones) and *ddd* is the day of the week (sun, mon, tue, wed, thu, fri, sat). For example, *a\_um\_wed.zip* contains new or changed applications from Wednesday, but is generated and posted on Thursday.

The public access files can be found by going to the "ULS Downloads" section of the ULS home page. Under the "ULS Downloads" section are two hyperlinks – "Databases" and "Daily Transaction Files". The complete data file for applications is created early Sunday morning and posted to the "Databases" section. The daily files are created early Sunday through Saturday mornings and are posted to the "Daily Transaction Files" section. The daily transaction files created on Tuesday contains Monday data; Wednesday contains Tuesday data, Thursday contains Wednesday data, and so on.

***Data Files.*** The dat files produced by unzipping a downloaded file contain a specific type of data (e.g., Registration Data, Entity, Channel, Venue, etc.) and the data is pipe-separated. Each record type starts with a unique 2-character record type code that identifies the data set within each dat file. The last data field within a dat file is not followed by a pipe("|").

***Using the Data.*** Data can be joined whenever the column name is the same in all tables. The primary column for joining application data is the ULS file number (position 3 of the dat files). In addition to the ULS file number, each application has been assigned a unique, 9-digit system identifier (position 2 of the dat files). This unique system identifier can be used in place of the ULS file number or in conjunction with it.

Each dat file has a name in the form *xx.dat*, where *xx* identifies the data within the dat file. The table below summarizes the dat files included in each public access download file for the unlicensed wireless microphone registrations. This table shows the hierarchy of the dat files, and which dat files are required (R) or optional (O).

<b>Tables</b>	<b>Contents</b>	<b>Required or Optional</b>
<b>Hierarchy</b>		
RD	Registration Detail	R
NA	Name and Address Information	R
CH	TV Channel Information	R
VN	Venue Information	R
L1	Latitude and Longitude Coordinates	R
EV	Event Information	R
A4	UM Attachments	O
C1	UM Comments	O

The tables below list the data elements within each dat file for the unlicensed wireless microphone registrations.

<b>REGISTRATION DETAIL</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[RD]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Source	char(1)
5	Application Purpose	varchar(2)
6	Application Status	char(1)
7	Radio Service Code	varchar(2)
8	Requesting A Waiver	char(1)
9	At Least six devices on each of the Reserved channels?	char(1)
10	At Least six devices on each of the Other channels?	char(1)
11	Certification for Registration (Yes or No indicator)	char(1)
12	Minimum Number of TV Channels	varchar(2)
13	Maximum Number of TV Channels	varchar(2)
14	Maximum Number of Wireless Microphones	varchar(3)
15	Certifier First Name	varchar(20)
16	Certifier MI	char(1)
17	Certifier Last Name	varchar(20)
18	Certifier Suffix	varchar(3)
19	Certifier Title or Relationship to Registrant	varchar(40)
20	Date Entered	mm/dd/yyyy
21	Receipt Date	mm/dd/yyyy
22	Grant Date	mm/dd/yyyy
23	Expired Date	mm/dd/yyyy
24	Last Action Date	mm/dd/yyyy

Database administrators should note that venue approvals are valid throughout the day on their “Expired Date”. That is, registrations for protection at an approved venue may be requested and provided until 23:59 on the day the approval expires.

<b>NAME AND ADDRESS INFORMATION</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[NA]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Entity Type Code (R or C) (Registrant or Contact Info)	varchar(2)
5	FCC Registration Number (FRN)	varchar(10)
6	Entity Name	varchar(200)
7	First Name	varchar(20)
8	MI	char(1)
9	Last Name	varchar(20)
10	Suffix	varchar(3)
11	Attention Line	varchar(35)
12	PO Box	varchar(20)
13	Street Address	varchar(60)
14	City	varchar(20)
15	State	varchar(2)
16	Zip Code	varchar(9)
17	Telephone	varchar(10)
18	Fax	varchar(10)
19	Email	varchar(50)

<b>TV CHANNEL INFORMATION</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[CH]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Type of Channel Identifier (R or O) (Reserved[2] or Other[19])	char(1)
5	TV Channel Unique Identifier (unique for each TV channel entered b the registrant)	numeric(9,0)
6	TV Channel Number	varchar(2)
7	TV Channel Sequence Identifier (allows for multiples up to 21) [Reserved: 1-2, Other: 3-21]	integer
8	User Self/Other Indicator (S or O)	char(1)
9	User Sequence Identifier (allows for multiples up to 15) [Self + 14 Others]	integer
10	User Other - Narrative Textbox	varchar(60)
11	Number of Devices	varchar(2)

<b>VENUE INFORMATION</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <span style="float: right;"><b>[VN]</b></span>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Name of Venue	varchar(80)
5	Type of Venue Code (S, T, C, H or O) ( <b>S</b> tadium/ <b>A</b> rena, <b>T</b> heater, <b>C</b> oncert Hall, <b>H</b> ouse of Worship or <b>O</b> ther)	char(1)
6	Type of Venue Code Other Description (Narrative Textbox)	varchar(100)
7	Venue Address	varchar(80)
8	Venue City	varchar(20)
9	Venue County/Borough/Parish	varchar(60)
10	Venue State	varchar(2)
11	Venue Zip Code	varchar(9)
12	Venue Type of Location Code (D or A) ( <b>D</b> iscrete Coordinates or <b>A</b> rea defined by 4 points)	char(1)

<b>LATITUDE AND LONGITUDE COORDINATES</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <span style="float: right;"><b>[L1]</b></span>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Coordinates Sequence Identifier (allows for multiples up to 25)	varchar(2)
5	Latitude Degrees	integer
6	Latitude Minutes	integer
7	Latitude Seconds	numeric(3,1)
8	Latitude Direction	char(1)
9	Longitude Degrees	integer
10	Longitude Minutes	integer
11	Longitude Seconds	numeric(3,1)
12	Longitude Direction	char(1)

<b>EVENT INFORMATION</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[EV]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Event Type Indicator (S or R) ( <u>S</u> ingle or <u>W</u> eekly <u>R</u> ecurring)	char(1)
5	Event Sequence Identifier	interger
6	Start Date	mm/dd/yyyy
7	End Date	mm/dd/yyyy
8	Start Time (Eastern Time in half hour increments, and accommodate Daylight Savings Time)	hh:mm (AM/PM)
9	End Time (Eastern Time in half hour increments, and accommodate Daylight Savings Time)	hh:mm (AM/PM)
10	Recurring Day Indicator - Sunday	char(1)
11	Recurring Day Indicator - Monday	char(1)
12	Recurring Day Indicator - Tuesday	char(1)
13	Recurring Day Indicator - Wednesday	char(1)
14	Recurring Day Indicator - Thursday	char(1)
15	Recurring Day Indicator - Friday	char(1)
16	Recurring Day Indicator - Saturday	char(1)

<b>UM ATTACHMENTS (Includes Pleading Type Attachments)</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[A4]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Attachment Code	char(1)
5	Attachment Description	varchar(60)
6	Attachment Date	mm/dd/yyyy
7	Attachment File Name	varchar(60)
8	Action Performed	char(1)

<b>UM COMMENTS (External Comments Only)</b>		
<b>Position</b>	<b>Data Element</b>	<b>Definition</b>
1	Record Type <b>[C1]</b>	varchar(2)
2	Registration Unique System Identifier	numeric(9,0)
3	ULS File Number	varchar(14)
4	Comment Date	mm/dd/yyyy
5	Description	varchar(255)
6	Status Code	char(1)
7	Status Date	mm/dd/yyyy

**Sample Record**

RD|123456789|0004567890|I|NE|2|UM|Y|Y|Y|Y|2|4|34|Thoma  
s|R|Miller|Sr.|Chief, IT  
Department|03/22/2012|03/22/2012|03/28/2012|03/28/2013  
|03/29/2012  
NA|123456789|0004567890|R|0004187701|Miller and Henley  
Company||| |Brian Henley|22|2345 Broadway  
Street|Aspers|PA|17304|7175285323|7175282243|bhenley@M  
HCO.com  
NA|123456789|0004567890|C| |Brian|S|Henley| | |783  
Circle  
Dr|Gettysburg|PA|17325|7173385566| |bhenley@MHCO.com  
CH|123456789|0004567890|R|1|36|1|S|1|3  
CH|123456789|0004567890|R|1|36|1|O|2|Subway South Co|3  
CH|123456789|0004567890|R|1|36|1|O|3|Motorola Inc|11  
CH|123456789|0004567890|R|2|38|2|S|1| |4  
CH|123456789|0004567890|R|2|38|2|O|2|North Hollywood  
Cab Co|3  
CH|123456789|0004567890|O|1|06|3|S|1|15  
CH|123456789|0004567890|O|1|06|3|O|2|City South  
Communications Co|2  
CH|123456789|0004567890|O|2|19|4|S|1|14  
CH|123456789|0004567890|O|2|19|4|O|2|North Broadcast  
Co|3  
CH|123456789|0004567890|O|2|19|4|O|3|West End  
Marketing Inc|13  
VN|123456789|0004567890|NYC Golf Resort|O|Golf  
Tournament at Resort|1212 White Plains Rd|New  
York|Bronx|NY|10451|D  
L1|123456789|0004567890|1|40|51|00.1|N|073|51|58.1|W  
L1|123456789|0004567890|2|40|51|01.1|N|073|51|57.1|W  
L1|123456789|0004567890|3|40|51|02.1|N|073|51|56.1|W  
EV|123456789|0004567890|R|1|04/29/2012|05/12/2012|09:0  
0AM|05:00PM|Y| | | |Y  
EV|123456789|0004567890|R|2|04/30/2012|05/11/2012|03:0  
0PM|10:00PM| |Y|Y|Y|Y|Y|  
A4|123456789|0004567890|W|Waiver  
Request|03/22/2012|wav.doc|A  
C1|123456789|0004567890|03/28/2012|Reviewed and  
Approved for Grant. MLB|A|03/28/2012