>>Okay, good morning. I know we have a lot of participants today. Today we will give a little walk through of the special access data collection database container that was released on the 9th of December. And it comes with a technical manual, and database container and sample files to test with. I am Billy Lane, assistant Division Chief of the policy division wireline competition Bureau. Joining me today is a representative of Computex.

>>An analyst that helped build the container.

>>I'm an attorney with the pricing policy division managing public outreach for this effort.

>>We are accepting questions to the website that was identified in the public notice announcing the event. We may wait until the end for questions, but let's get started. Let's talk a little bit about what database container is and what it isn't. Basically we are providing you with a folder that contains scripts to create a database using Oracle and then giving you a tool to load that container, the database structure in Oracle and we will give you a tool to load your text files that you've created into the container and then validation checks will occur and then once all the validation has passed, you basically dump that file from the Oracle, zip it up and eventually it uploads to the FCC using the secure website portal. There are two ways to get to the database containers materials, one is coming to the log in. That would be here. Database containers download. The small screen, text, that's for later on in the presentation. It's necessary to make it this size. So going through here, it will take you to an FCC hosted page that has materials. You can also go to this page directly with without having to log in using this address that I'm pointing to right now. The tech manual, it's important in looking at these materials. Let's go back a second. We have been updating materials from time to time with the improvements. If you are having a problem, make sure you have a most recent

version of not only the technical manual, but the container itself.   Right now version 1.2.   And the sample data files that we are using, version 1.2.   As we make improvements, based on issues that are raised with us, we plan to identify what changes are occurring, with the most recent version.   So you can identify whether we solved your problem or not.   We can't emphasize enough the importance of reading the technical manual.   And with the database container itself we will be updating this as well.   We are still now version 1.2.   Technical manual walks through the process and very important here at the start, the system requirements and then it gives how to get a free version and install a free version of Oracle express and then setting up the database container using Oracle express.   With that we will kind of get started.   So the sequence he is important you can install first and get these files, but I'm going to start with getting the files just like the technical manual walks through.   I'm using Mozilla, Firefox.   We've had some people have issues downloading these files using Internet Explorer, depending on their version so we have this text here in that regard.   This is a zip file.   Right-click, copy, and I'm putting it on my C. drive.   You may put it down on another drive if you do put it on another drive you will have to adjust the instructions.   It's dependent on what you are typing in, point to the right drive so whatever drive, you need to change and vary the instructions in the manual accordingly just taking a look at what is in this folder.   This is the graphical user interface tool that we will be using later on.   This is where you will be storing your text files when it's time to load.   Right now you can see we have a bunch of control files.   It's important that the control files and the text files reside in the same folder for this to work.   For today I will put sample files on my computer.   You can see they are all text. The specifications for how to organize these text files are provided in the instructions that

came up with the various orders that were released.   Here's a look at the instructions telling

you how to organize your data.   This is set up in rows, but it will look in columns across.   It's

the various formats it has to be a text format.   People were saving their files or creating their

files using Excel.   That can be exported to a CSB file that could be converted to a text file.

We have the instructions in the technical manual on conversion from CSB to text.   I will create

a folder for these samples.   So now you've got the pieces for creating the database container

as far as on our side.   The next part of the technical manual talks about getting Oracle

express.   There is a website.   This is an Oracle hosted website.   It's a non-FCC website.

For our computer system here it is 64 bit so this is the version that we are downloading.   I've

already installed it on my machine, but I can give you the initial steps.   Sorry.   Except the

license.   Since I already have an account, when you are installing or when you are

downloading from Oracle you will create a user account and have a password.   This password

here is different than the password noted in the instructions later on when you are actually

using Oracle.   That is for your system password, which is created during the installation

process and the technical manual provides a walk-through of that.   So as it is coming down,

get the InstallShield.   Then you are doing the installation process.   This right here is very

important.   This is where you are creating a password for your system user, which is kind of

the master password when you are using Oracle.   So I have installed Oracle.   I've got my

password for the system.   Now I can start using Oracle.   And feel free to jump in with

clarifications at any time.   As start of my installation process I get two types of commands.   I

get the SQL command line and the C. command line.   I like to use the C.   The instructions

are written primarily for the SQL, but it allows for both versions and not much difference in the

initial stages.   So this is detailed in the technical manual.   Outside of installing Oracle express

or remembering the password you created, through testing, this seems to be the trickier area.

So right now I'm going to connect.   This is my password, Oracle 12.   So as you can see now

I'm connected into Oracle.   And going through the technical manual, [Off Mic]
, sorry, I'm zipping back a little bit.   This is the step I just performed using C.   You can tell
once I put in the command the C. is changed to SQL.   I like starting with C. because I can
copy and paste.   I have not quite figured out how to copy and paste starting with SQL.   So
the first thing we have in the manual, this is for Oracle express and the free version has a limit
of 11 gigabytes.   If you are creating a database in excess of that amount, you would need a
license for the full-blown version of Oracle, which would cost -- have a cost associated.   As a
default with the Oracle express, the program allocates space to different compartments.   This
3.3 step is a way to maximize the space allocation in Oracle express to one compartment so I
guess the system compartment.   This is detailing the path of where you have Oracle saved
and if you don't know where that path is, I figured it out and going through testing.   Here is the
desktop icon created when you have Oracle express.   You can right click the properties and
this will tell you the path.   Actually that's a little off.   That's a little off.   Maybe it's from your
programs.   Sorry.   [Off Mic]

>>There is a way you find the program and you right click on properties and how it is safe.

Mine are saved as Oracle express.   Oracle.   I think it's an Oracle data will.   This is the path.

When you do this the first time you will not see system 01.   You will just see system because

you are creating this through the instructions.   You are creating system 01 right here.   You

should only have to do this step the initial first time.   Next you are going to create a user.

Right now I'm going to create this user.   And you can copy and paste and right-click where the

cursor is and then paste.   User created.   Now I will grant certain rights to this user.   Grant

succeeded.   You only have to do these steps in the initial -- I will stick with that for now.   This

is creating where we will put the dump file once you've filled your container.   You have to be

connected as the spadc user for these commands.   Directory created.   Grant succeeded.

So like I said, these only have to be done on the initial -- to the extent we give you a new

database container, a different version with improvements, it will be necessary to drop the

spadc user and re-create the steps again meaning create your new spadc user, create where

to put the dump file, but we can provide insight that what we provide you the improved

versions.   [Off Mic]
I'm connecting spadc to make sure I'm connected to spadc.   Now I am telling the system
where to put or where to look for the files --

>>   This one is for -- that's actually pulling your container out.

>>That's right.   This is creating the shell.   So this is taking the scripts we've given in creating

the structure through the database.   And this is going to be.

>>This is the scripts creating to run the validation routines that will occur when you try to load

your data.

>>Okay.   So now that the table is created in Oracle structure, the quality check is in place,

now I need to start loading some files.   This is the C drive we were at, spadc, here are my

sample files.   I'm just going to copy these.   And I'm going to stick them in this folder with the

control files.   And this spadc properties, this is going to show you where the graphical user

interface is going to look for the files.   So it is C drive, spadc folder, and this folder, this

subfolder.   To the extent you are changing where you are saving your materials, if it is the N.

drive or you've created -- you need to keep it this folder name regardless.   The drive you use.

But, you could change this part the reason why I say you have to keep this folder is because

it's looking, it's hardcoded if you will to look in this folder named spadc.   All right, so now I'm

going to launch the graphical user interface.   And you can see, these are the filenames that

the system is looking for and they correspond to the file names we have on our sample files.

Is also a list in the technical manual in section five of the technical manual.   Detailing the

exact filenames that have to be -- your files have to be identified by that filename for the

system to work. So I'm just going to load all the files that I have in the background. Not that

one. You can see what's happening in the background. It's loading the container now.

Okay, so it's loaded all of the data. This is kind of the pass/fail for the container as a hole.

Here it has passed. This identified specific file types. A couple of the columns as noted in

the technical manual served no utility so you can disregard that. The yes corresponds two

things that are relevant. So if you are loading files individually, you will keep seeing failed

here until you have met the requirements for the container as a hole. This is one level of error

messaging we have. So if you want to see.

>>For each section. For each section.

>>So looking at the tech manual. The combinations. We will try to be transparent about it.

But see if I can find it. So here are the filenames that I I mentioned that are in the technical

manual. It tells you the corresponding questions you are responding to. This is one table

spec for one file that is not in the instructions, but it's identifying who you are so it's something

that needs to be created. This always has to be loaded in the container to get a pass

condition. It's one of the requirements. This is about optional fields. I'll get to that later.

[Off Mic]
What I'm trying to do is go to the error messaging part of the technical manual to show you the
combinations that have to be present. 4.4. It's in the section titled error messaging, if I can
find it. Here we go. So this tells you the combinations. So, for example, if you are a
provider and you are only doing the competitive provider part, the container, once you put one
file into a section, it will start looking for the rest of them. With competitive provider,
depending on how you answer will indicate whether the system looks for the rest of the files.
So you are a reseller and you've answered no to you have no connections that you own, lease,
to provide that service or you are not in a price cap area, for example, you don't have a
condition in the price cap area that is. Then the system will recognize you put nos on both of
these. The system will recognize you don't need the rest of the files. To have a past
condition. So if for some reason you said yes to both of those columns, those questions it is
going to look for the rest of them. And you would not get a pass condition until you correctly
loaded each of these files in the container. Same thing with ILEC. And here are the required

ones many of the questions remain optional so these are the ones that are able to look on a mandatory basis.   So now I want to show you the other level of error messaging.   That is for the container as a hole.   As you are loading individual files, there is a different level of error messaging.   I'm going to throw in some erroneous files into my system.   And just so people can get a sense of what the files look like, some of these are really simple.   Sorry.   So you can tell some of these are really simple.   One row, common delimited, one row, 2 columns.   That's the file.   Others could be or even this, others could be a little more in depth.   This particular one goes to location so you could have a lot of locations, it's common delimited, but it looks really confusion.

>>It's a file built for testing so it does not correspond to a reality.   Let's put that out there.   So

I will paste my bad files and I will try it again.   Once again, in the background it's loading.

You have a field condition because certain required files are not loaded correctly.   Now if you

want to figure out, what file broke down in particular, what was wrong with that file?   Back to

the spadc, scripts and files, look at date modified.   [Off Mic]
Not the best example to show you an error messaging files.   We will try one more time.   I will load them individually.   This is what should have happened when you loaded all, but we will check on that.   When we load individually, we can see there are two new files created in the system and when we tried to load one is the log file and one is the bat file.   Law tells you which ones did not get loaded.   It had a max count so the max count is 50.   So once you've tried to load 50 rows and 50 are not loaded correctly, the system stops error-checking at that point.   It will identify the actual rows -- where does it say the actual numbers?   [Off Mic]
Record one, record two, three, four, five.   These are the actual rows that failed.   If you want to see what are in those rows, that's when you go to the other file, which is this bat file and it will show you what was in those rows to help you kind of isolate what went wrong in the file so once you have trouble shoot at everything and you've loaded everything correctly and you are ready to dump your table.   First, I need to put some correct files in there.   [Off Mic]
So now you have a pass condition again.   Container is loaded, it's loaded correctly.   Now it is the data dump, which is the next tab, click.   [Off Mic]
Now it is creating a file containing your entire database.   It takes a little bit of time.   Okay, so you can see it has created a file and put it into the C drive.   And also down here, you can see C drive, spadc, if I go to C drive, I can't see it is here.   Just created.   And then you would zip it, press it, and now it's ready to be uploaded to the FCC.   Easy as pie.   -- easy as pie.   Just a little bit more about the technical manual.   It will help you identify putting data in your container.   And in section five of the technical manual, we go through, give you some insight as to the field construction and the constraints.   So, for example, this is telling you what fields you can ignore, blank, other fields it says require a number unless otherwise indicated in the number must be zero or greater.   So for right now, save, for example, something does not pertain to you, but it's a mandatory field you can't leave it blank and have the file loaded correctly.   You would have to put a zero in that field.   We also have information on character limits.   If the default is 255, four text fields.   And then we have the larger accounts for those

fields that we believe should be greater to give more opportunity to explain. And then we have some troubleshooting compilation errors and things you can do in that regard. So that is the database container. As you probably noticed, I think it's right here, as far as the functionality on uploading the container, we have kept that disabled for now. That is really not so much a technical issue, it's just an internal -- resolving some internal hosting issues before we make that life. So on the database upload, so there are two parts of the database upload. The QC log which I can show you what that is and that the zip file itself will be here. On that QC log, that is the message you saw after you loaded basically, this message right here gets dumped into the QC log which you can find in the scripts and files. At the top. QC file log. It's the limited text. So this would get uploaded on the website in addition to your zip file. This gets cross checked against the filer types you selected on the filer ID page to make sure they conform. Those would need to conform before you would be able to submit otherwise you would get an error message on submission and if for some reason these columns are identified in the tech manual, they did not correspond with what you provided on the filer ID page. So that is the database container in a nutshell. We do have a handful of improvements in the works and they really just go to not the process that I laid out so much, but the loading of files and making sure that the constraints in the fields correspond with the instructions on how to organize sure data and if there is conflict we are changing the database structure to match the instructions recognizing you all had these instructions for a long time and have been organizing your data to fit these instructions so changes will be made to the database container to conform. We have a handful right now, just a couple to mention, I think on the bandwidth fields to allow zeros across the board to take into account idle circuits. I think right now requires at least one number that is greater than zero. We will change that to be all zeros. We are also making a change to some of the billing in the sense that MRC and NRC can take a negative value and that's been raised by a couple of people. That's not inconsistent with the instructions, but something folks wanted. We did -- and for these improvements, it's just a handful. It will not affect how you are organizing your data so much, if anything it will give you greater flexibility in how you organize your data. And you can expect that version to come out Monday, at the latest. We will give an inventory of what has changed in the database structure. We did go through, thanks to the help of several companies, some beta testing with this product before release. Their insight and continued feedback has been very helpful in making improvements. For larger companies, I'm sure they have certain technical expertise to bring to bear internally. For smaller companies, we know it's going to be a greater challenge. And we found with the beta testing that a lot of handholding was necessary to get through some of the initial steps until you get the Oracle express and the database container and run through a couple of times, it's working on your system, recognizing that we do expect folks, you are coming to the Hotline, going to the system -- let's see if I can -- [Off Mic]
It's right there. All of the technical request that you have can be guided through there and then routed to the appropriate I.T. folks who can call you and walk through problems with you. It is helpful on the front end to take screenshots of what the problems or error messages you are getting to help us kind of get at what are the issues. Some issues we've seen before, some will be new, but screenshots are helpful as a starting point. Anything else you want to add? To the extent you have questions that people have asked.

>>Nothing new, but we had some [Off Mic]

>>The first question we have is can database container be created for multiple entities on one computer and if, yes, how is this accomplished?   It can be accomplished in the way to go, but it is once you have a valid data container create the data dump that Billy showed.   Once you create that data dump, change the filename because every time you click the data dump button it replaces your version of the day-to-day so -- database, so once you change that file name, then you can go ahead and create a new entity with a new data set that the best way to do that would be to drop the user to create your shell and two clear out all your tables again because if you just upload, say, for example, if -- for a different entity you are just only uploading the file so with 10 B. but the first one had files with two A. and they're so it's important to clear out and start over from that part so you would start from once you drop that user, I would start from 3.3 and just create that user, create the shell, have validations be there, create the data dump, and then load your data again on the same computer.

>>Sounds easy to me.

>>Simple.   [chuckling]

>>But, yes, there is a way to do it.

>>The second question is how does the database container remember which files a company is required to submit?   Billy touched on this earlier, it section 4.4.2.   Once you upload a particular table, say, for example, this table, then the container will look to make sure you filled out all the other required tables for that section in order to get a pass.   If you are competitive provider, as Billy has shown here, it will check if you upload to make sure that you have the answer and it will check for all the other tables.   In that container.

>>So just additional things, I was thinking along those lines, it's important on the outset for the smaller folks or people that are new to this is that you have admin rights on your system when you're downloading and installing Oracle express.   Keep those rights available while you are operating in the initial stages.   That was a stumbling block out of the gate internally because I'm sure that like the FCC, you have restrictions within your companies as to what you can install on your computer so make sure you have the appropriate rights to do that.   And also just to give people some hope, I am not a database person, I'm a technical person -- or a technical person.   I'm an attorney and I was able within a matter of weeks to get to testing and work through these instructions.   So you can take hope in that.   Are there any other questions?

>>[Off Mic]

>>I'm monitoring the spadc e-mail outreach account for any questions.   So I have not seen any lately.   Here is your opportunity of your questions, now is the time to submit them.

>>Like I said, this won't be your last opportunity to ask questions, you can go through the Hotline and also there is an e-mail vehicle as well or support, it's on -- here at the bottom.   The phone number and the support link.   As you know, we recently extended the deadline through the delay and the release in the container so for large companies, more than 1500 employees, the deadline is January 29.   For other companies doing the full submission, it would be February 27.   And that will conclude our webinar unless somebody pops up out of the woodwork.   Okay.   Happy holidays.   Appreciate you all -- I know this is not an easy task and it's not been easy for us to get to this point.   A lot of development and investment in time and we appreciate you going to the exercise and we are here to help make this as least painful as

possible.   So with that we will conclude the event, thank you.