

**Equipment Location – Certification Identification
Database (CID)
Repairing Corrupted EL-CID Locations**

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1. INTRODUCTION

This report provides a description of how to repair corrupted Equipment Locations, i.e. (EL-CID) locations.

1.1 BACKGROUND

In recent years, some EL-CID v6.0 users have been experiencing a “Dynazip” error when importing certification files. In most cases, this has been traced back to corrupted EL-CID files (.cid files) which are missing required location data. Specifically, the certification makes a reference to a location, but the required supporting data for that location is not contained in the .cid file. (Note that Dynazip errors can actually be caused by any error that causes the import process to abort unexpectedly.)

Once a user has experienced this Dynazip error due to the location situation described above, this error will then always occur with every import from that time forward. The Dynazip error can only be resolved within v6.0 by resolving the location issue(s), which will be discussed further below.

It should be noted that once this error has occurred, the import process may corrupt locations being imported, even if the file being imported is error-free. Clearly, this causes a continued increase in the number of corrupted, or “bad”, locations being shared, as users trade EL-CID files with locations in them, especially if users ignore the error message and continue working.

1.2 PURPOSE

This document is focused on providing assistance to the originator of a certification that has bad locations.

1.3 THE PROBLEM

It has been determined that if an error occurs during the import process that prevents the “cleanup” of the Geometry field, then there will likely be locations remaining with location filenames in the Geometry field. During any future import, the system will attempt to import data from ALL files referenced in the Location table, including those that were “left behind” from the last failed import. Thus, an error becomes very likely as the system will probably not find the files referenced by the earlier import that initially caused the error (i.e., previous geometry entries that did not get cleared.)

Further, once this has occurred, the likelihood of generating a flawed exported XML file is also increased. A flawed exported XML file is one which includes a geometry file reference (as shown above), but for which the associated location file is NOT contained in the Certification.cid file.

1.4 INTENDED DOCUMENT AUDIENCE

This document is of value to both EL-CID users and technical audience as described below:

- **EL-CID users and Technical Team** – This document will serve as a means of communicating the steps required if a certification has bad locations.

1.5 SECURITY CLASSIFICATION AND CONSIDERATIONS

This document is considered unclassified, with distribution authorized to NTIA components only. Other requests shall be referred to NTIA.

1.6 PROVIDING FEEDBACK

Constructive feedback is encouraged from all readers to improve the value and accuracy of the information presented herein. Provide feedback to Mr. Hien Ly: HLY@ntia.doc.gov.

2. TRANSITION TO EL-CID V6.1

EL-CID Version 6.1 will no longer allow these bad locations into the system. The user will instead be given a choice of cancelling the import altogether, or importing the certification without the bad location(s). Certifications submitted to NTIA with bad locations will likely be sent back to the submitter for resolution.

Note: The remainder of this document is focused on assisting the originator of a certification that has bad locations.

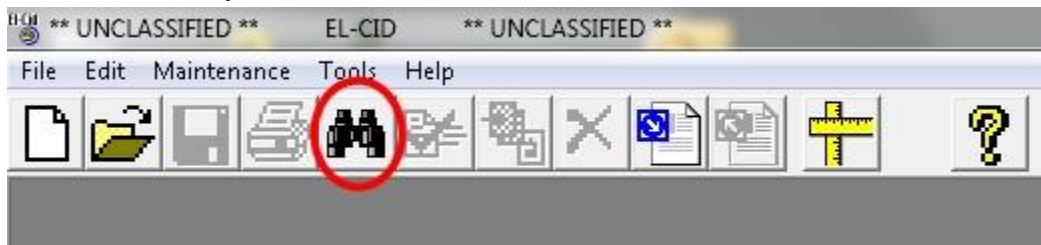
3. BACKUP

It is wise to back-up files and data, but it can be even more important when performing processes that involve deletion of any records. There are 3 steps that support backing up files and data:

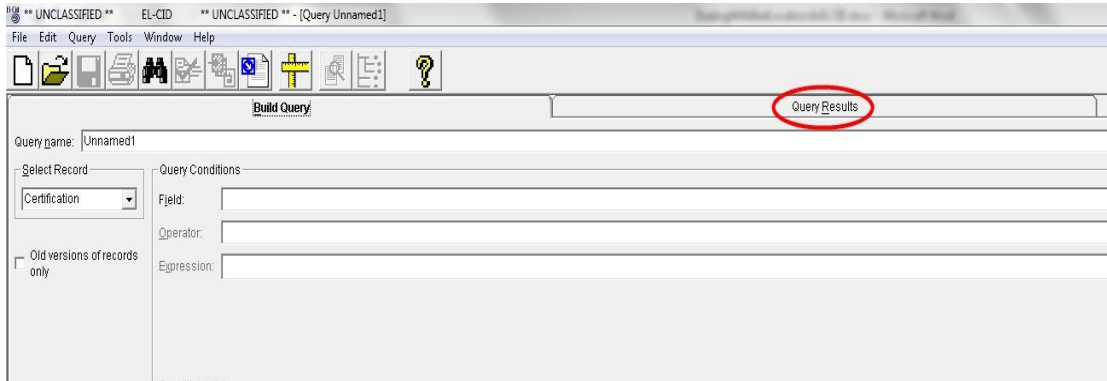
1. Export Certification
2. Export Locations
3. Back-up of the entire EL-CID system data.

3.1 EXPORT CERTIFICATION:

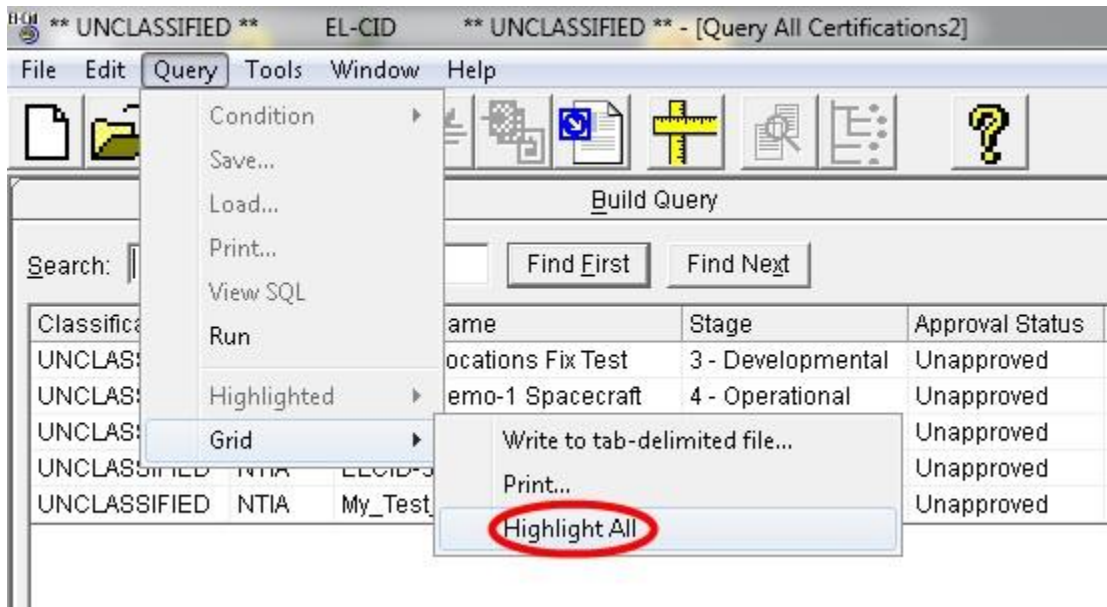
1. Click on the Query icon



2. Click on the “Query Results” tab

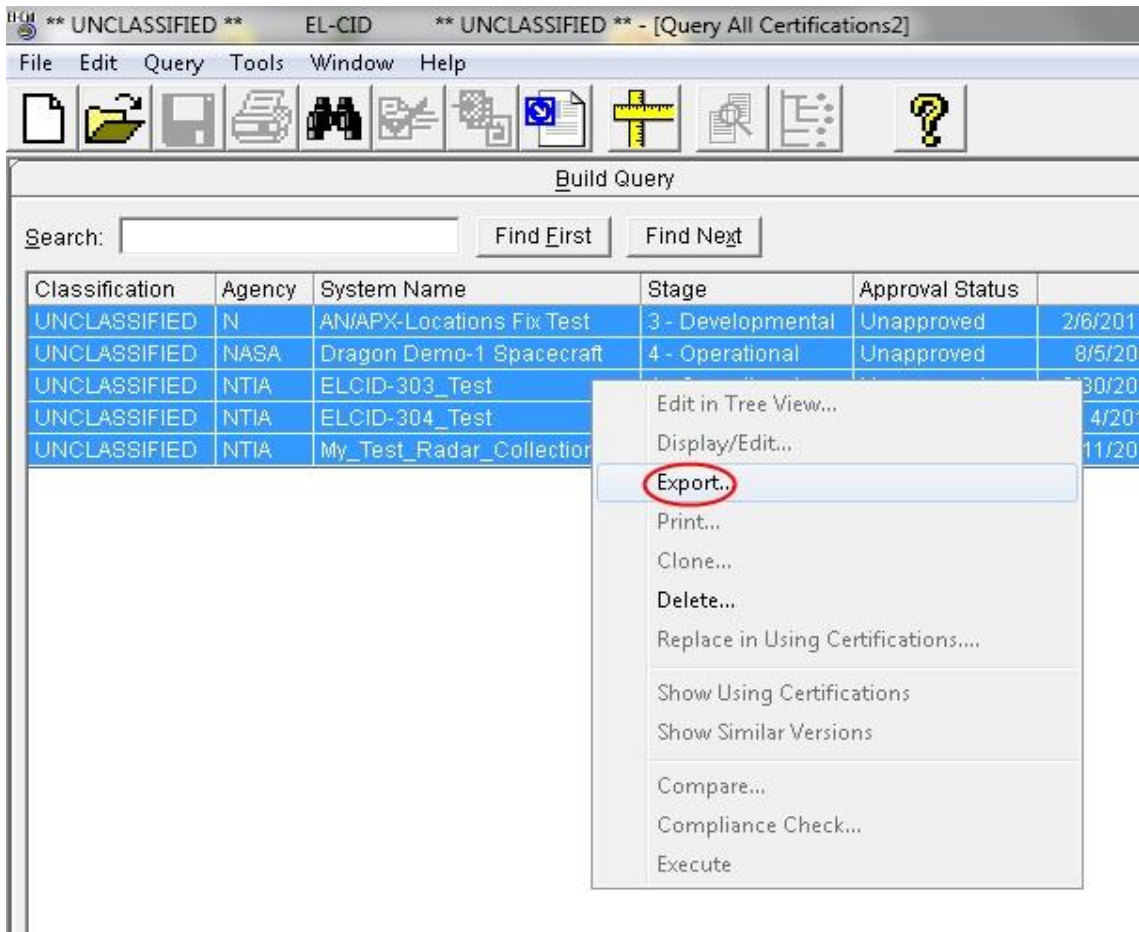


3. On the Query menu, choose “Grid”, and then choose “Highlight All” option



Repairing Corrupted EL-CID Locations

- Right-click on the highlighted rows and select the “Export...” option

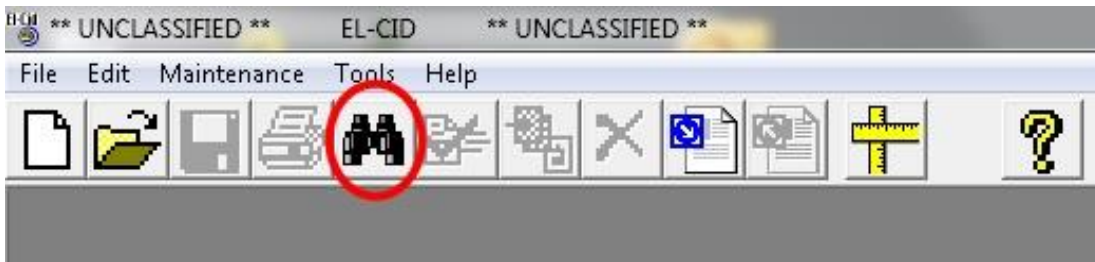


- Name the exported CID file with an informative name and save in a separate/safe drive/folder/location

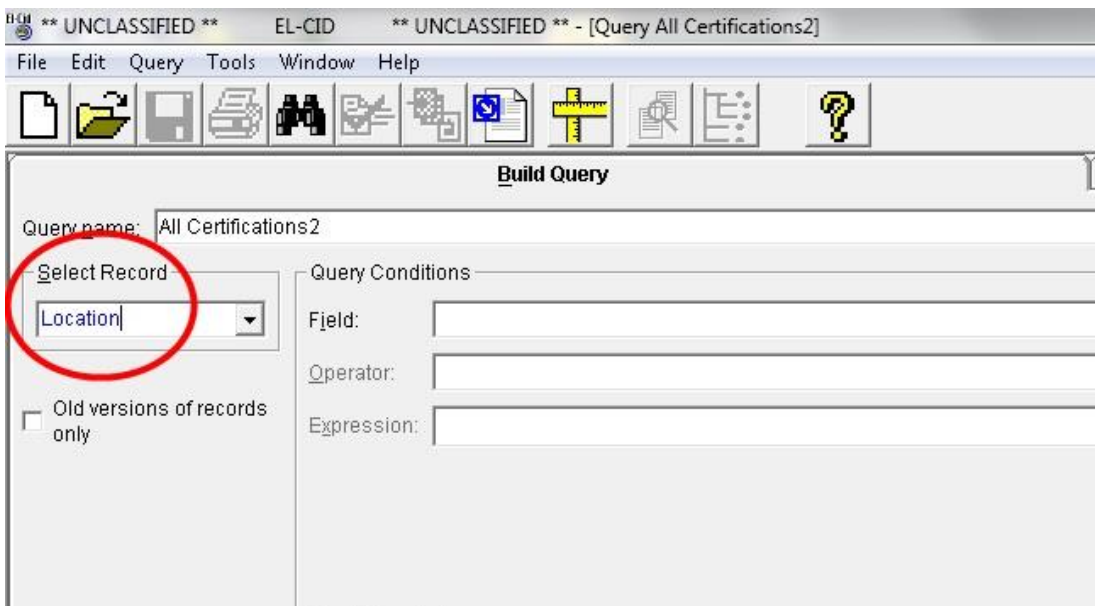


3.2 EXPORT LOCATIONS:

1. Click on the Query icon



2. Choose "Location" for "Select Record", then click "Query Results"



3. Click the "Date/Time Imported" header twice to place the most recent locations at the top of the list

Query Results

s	Timestamp	Date/Time Imported	Location Type
	2/12/2008 5:47:08 PM	2/6/2017 10:13:44 AM	Single Point
	2/12/2008 5:28:18 PM	2/6/2017 10:13:44 AM	Single Point
	7/1/2008 2:11:50 PM	2/6/2017 10:13:44 AM	Single Point
	2/13/2008 4:01:43 PM	2/6/2017 10:13:44 AM	Single Point
	2/13/2008 5:23:42 PM	2/6/2017 10:13:44 AM	Non-geostationary Satellite
	2/21/2008 12:20:49 PM	2/6/2017 10:13:44 AM	Geostationary Satellite
	2/21/2008 12:21:21 PM	2/6/2017 10:13:44 AM	Geostationary Satellite
	2/21/2008 12:21:44 PM	2/6/2017 10:13:44 AM	Geostationary Satellite
	6/24/2015 11:19:05 AM	1/25/2017 1:35:29 PM	Polygon

Repairing Corrupted EL-CID Locations

- Highlight all locations with a “Date/Time Imported” timestamp that is after 8/16/2006. (This should correlate to any Locations that have been added to the system beyond those which came with the installation.)

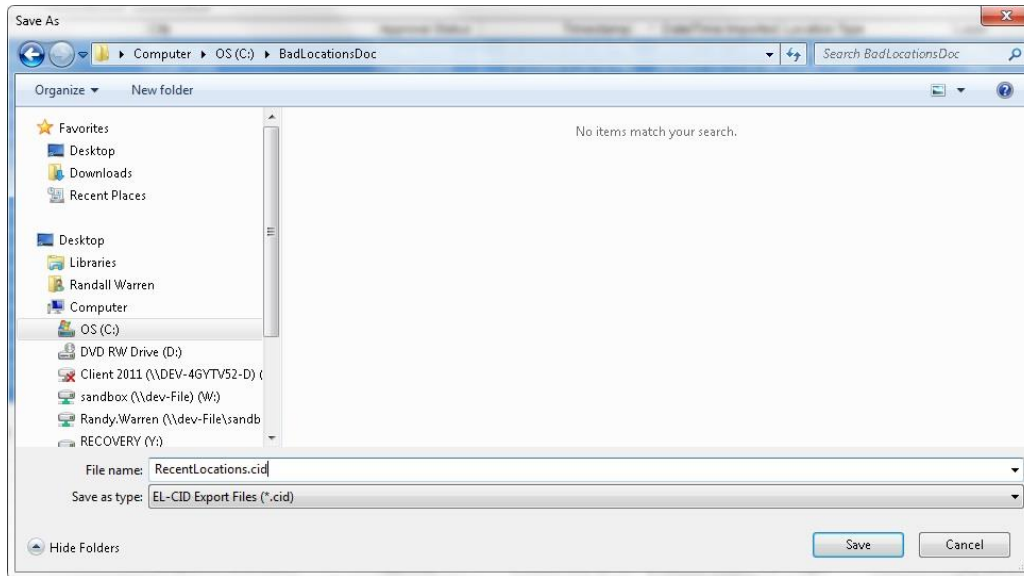
Build Query		Query Results							
Search: <input type="text"/>		Find First		Find Next					
Classification	State/Country	City	Approval Status	Timestamp	Date/Time Imported	Location Type	Layer	Latitude	Longitude
UNCLASSIFIED	Australia	Mingeneu	Unapproved	2/12/2008 5:47:08 PM	2/6/2017 10:13:44 AM	Single Point	Cities	29 12'00"S	114 54'00"E
UNCLASSIFIED	Hawaii	South Point	Unapproved	2/12/2008 5:28:18 PM	2/6/2017 10:13:44 AM	Single Point	Cities	19 00'00"N	155 36'00"W
UNCLASSIFIED	Maryland	Applied Physics Lab	Unapproved	7/1/2008 2:11:50 PM	2/6/2017 10:13:44 AM	Single Point	Cities	39 10'00"N	076 54'00"W
UNCLASSIFIED	South Africa	Hartebeesthoek	Unapproved	2/13/2008 4:01:43 PM	2/6/2017 10:13:44 AM	Single Point	Cities	28 36'00"S	030 12'00"E
UNCLASSIFIED	Space	Dragon Spacecraft	Unapproved	2/13/2008 5:23:42 PM	2/6/2017 10:13:44 AM	Non-geostationary Satellite			
UNCLASSIFIED	Space	TDRS E	Unapproved	2/21/2008 12:20:49 PM	2/6/2017 10:13:44 AM	Geostationary Satellite			
UNCLASSIFIED	Space	TDRS W	Unapproved	2/21/2008 12:21:21 PM	2/6/2017 10:13:44 AM	Geostationary Satellite			
UNCLASSIFIED	Space	TDRS Z	Unapproved	2/21/2008 12:21:44 PM	2/6/2017 10:13:44 AM	Geostationary Satellite			
UNCLASSIFIED	Maine	Bath	Unapproved	6/24/2015 11:19:05 AM	1/25/2017 1:35:29 PM	Polygon			
UNCLASSIFIED	Maryland	Paduxent River NAS	Unapproved	6/24/2015 11:11:18 AM	1/25/2017 1:35:29 PM	Polygon		00 00'00"N	
UNCLASSIFIED	MD	Webster Field	Unapproved	1/25/2017 12:33:19 PM	1/25/2017 1:35:29 PM	Single Point	Cities	38 08'40"N	076 25'40"W
UNCLASSIFIED	NC	New River	Unapproved	6/24/2015 11:11:38 AM	1/25/2017 1:35:29 PM	Polygon			
UNCLASSIFIED	New York	Owego	Approved	1/25/2017 12:30:14 PM	1/25/2017 1:35:29 PM	Center Point and Radius	States	42 06'11"N	076 13'14"W
UNCLASSIFIED	CA	China Lake	Approved	2/16/2012 12:56:21 PM	1/25/2017 12:42:16 PM	Polygon			
UNCLASSIFIED	New York	Owego	Approved	7/8/2011 10:43:20 AM	1/25/2017 12:42:16 PM	Center Point and Radius		42 06'11"N	076 13'14"W
UNCLASSIFIED	VA	Wallops Island	Approved	1/11/2012 8:44:27 AM	1/25/2017 12:42:16 PM	Single Point		37 51'17"N	075 30'48"W
UNCLASSIFIED	California	Point Loma San Diego	Approved	1/23/2008 1:31:29 PM	1/6/2017 7:50:54 AM	Single Point	Cities	00 00'00"N	000 00'00"E
UNCLASSIFIED	USP (US & POSS)		Approved	4/20/2010 1:49:50 PM	1/3/2017 5:45:48 PM	Polygon	DoD Land Areas		
UNCLASSIFIED	NATO	26 Members (Jul 2006)	Approved	8/16/2006 11:17:56 AM	8/16/2006 11:44:36 AM	Polygon	Special Regions		
UNCLASSIFIED	MA	South Weymouth Naval Air Stati	Approved	7/28/2003 3:10:47 PM	8/26/2004 4:01:19 PM	Polygon	DoD Land Areas		
UNCLASSIFIED	USP (US & POSS)		Approved	7/2/2003 3:30:35 PM	7/2/2003 2:56:54 PM	Polygon	Countries		
UNCLASSIFIED	Japan		Approved	5/23/2003 11:24:08 AM	6/26/2003 2:27:34 PM	Polygon	Countries		
UNCLASSIFIED	South Korea		Approved	5/23/2003 11:24:09 AM	6/26/2003 2:27:34 PM	Polygon	Countries		
UNCLASSIFIED	AK	Barter Island Long Range Radar	Approved	6/5/2003 2:09:38 PM	6/16/2003 10:25:47 AM	Polygon	DoD Land Areas		

- Right-click on the highlighted rows and select the “Export...” option

Build Query				
Search: <input type="text"/>				
		Find First		Find Next
UNCLASSIFIED	Australia	Mingeneu	Approval Status	2/12/2008 5:47:08 PM
UNCLASSIFIED	Hawaii	South Point	Unapproved	2/12/2008 5:28:18 PM
UNCLASSIFIED	Maryland	Applied Physics Lab	Unapproved	7/1/2008 2:11:50 PM
UNCLASSIFIED	South Africa	Hartebeesthoek	Unapproved	2/13/2008 4:01:43 PM
UNCLASSIFIED	Space	Dragon Spacecraft	Unapproved	2/13/2008 5:23:42 PM
UNCLASSIFIED	Space	TDRS E	Unapproved	2/21/2008 12:20:49 PM
UNCLASSIFIED	Space	TDRS W	Unapproved	2/21/2008 12:21:21 PM
UNCLASSIFIED	Space	TDRS Z	Unapproved	2/21/2008 12:21:44 PM
UNCLASSIFIED	Maine	Bath	Unapproved	6/24/2015 11:19:05 AM
UNCLASSIFIED	Maryland	Paduxent River NAS	Unapproved	6/24/2015 11:11:18 AM
UNCLASSIFIED	MD	Webster Field	Unapproved	1/25/2017 12:33:19 PM
UNCLASSIFIED	NC	New River	Unapproved	6/24/2015 11:11:38 AM
UNCLASSIFIED	New York	Owego	Approved	1/25/2017 12:30:14 PM
UNCLASSIFIED	CA	China Lake	Approved	2/16/2012 12:56:21 PM
UNCLASSIFIED	New York	Owego	Approved	7/8/2011 10:43:20 AM
UNCLASSIFIED	VA	Wallops Island	Approved	1/11/2012 8:44:27 AM
UNCLASSIFIED	California	Point Loma San Diego	Approved	1/23/2008 1:31:29 PM
UNCLASSIFIED	USP (US & POSS)		Approved	4/20/2010 1:49:50 PM
UNCLASSIFIED	NATO	26 Members (Jul 2006)	Approved	8/16/2006 11:17:56 AM
UNCLASSIFIED	MA	South Weymouth Naval Air Stati	Approved	7/28/2003 3:10:47 PM
UNCLASSIFIED	USP (US & POSS)		Approved	7/2/2003 3:30:35 PM
UNCLASSIFIED	Japan		Approved	5/23/2003 11:24:08 AM
UNCLASSIFIED	South Korea		Approved	5/23/2003 11:24:09 AM
UNCLASSIFIED	AK	Barter Island Long Range Radar	Approved	6/5/2003 2:09:38 PM

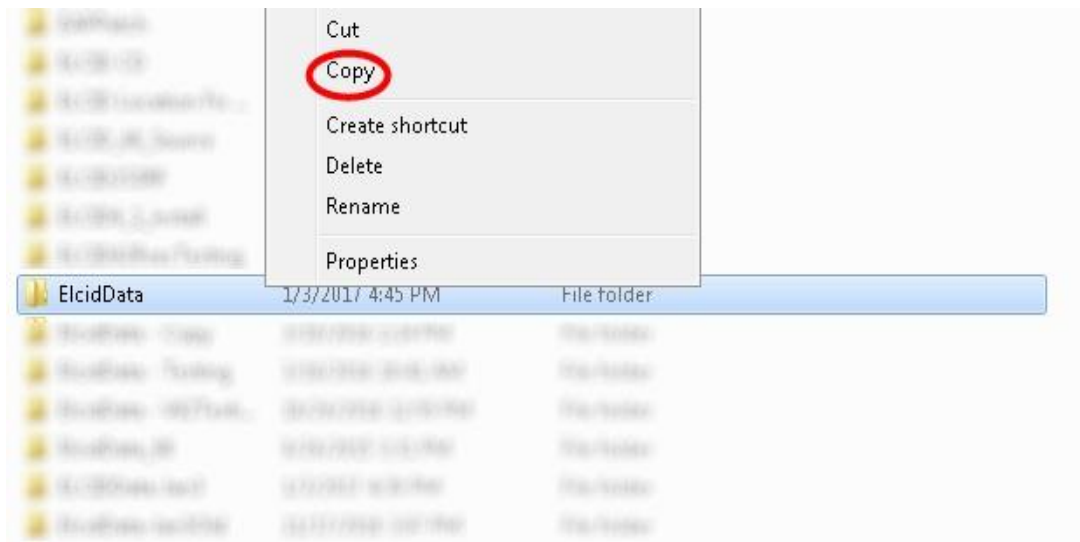
- Edit in Tree View...
- Display/Edit in Map...
- Export...**
- Print...
- Clone...
- Delete...
- Replace in Using Certifications...
- Show Using Certifications
- Show Similar Versions
- Compare...
- Compliance Check...
- Execute

6. Name the exported .cid file with an informative name and save in a separate/safe drive/folder/location

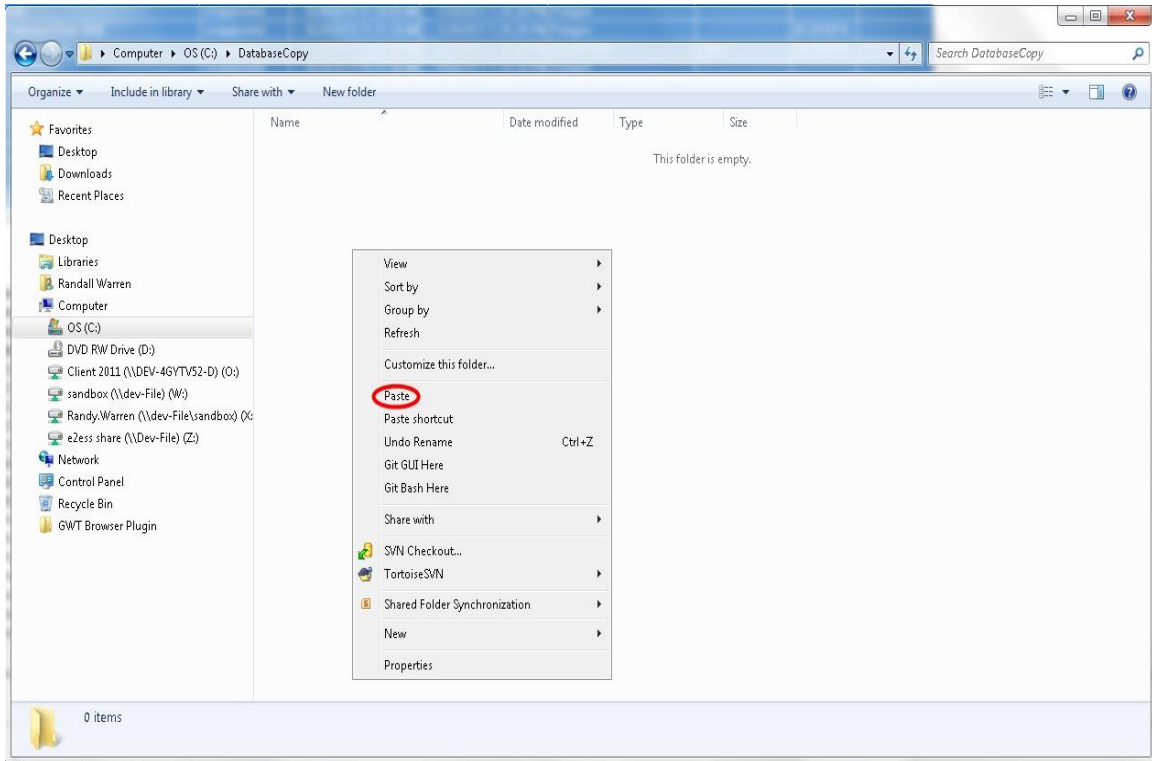


3.3 BACK-UP OF THE ENTIRE EL-CID SYSTEM DATA:

1. Close EL-CID and be sure no users are connected or operating on it. There should be NO “ELCID.ldb” file in the **ElcidData** folder. (Note that this folder name is specified by the person installing EL-CID, but it defaults to “C:\ElcidData”. This is the folder that contains EL-CID database files and other folders such as “**Attachments**”, “**Data**”, “**Icons**”, “**Map**”, “**Samples**”, etc. We will refer to this folder as “**ElcidData**” from here forward.)
2. Make a copy of the entire **ElcidData** folder



3. Paste it in a safe place as with the previous exports.



4. RESOLVING BAD LOCATIONS

There are three approaches for resolving bad locations:

1. Send the CID file to the EL-CID Help Desk,
2. Resolve in the new v6.1 system, and
3. The other is to resolve in the v6.0 system.

4.1 SEND THE CID FILE TO THE EL-CID HELP DESK

This is the recommended approach. The EL-CID Help Desk will do the following:

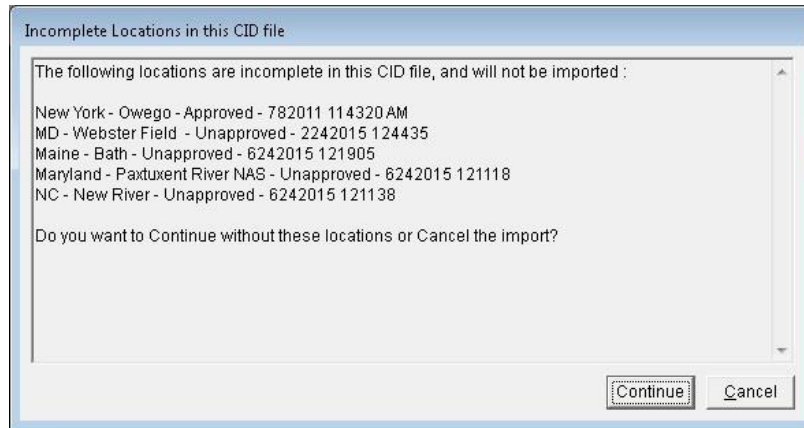
1. Identify the corrupted locations in the CID file.
2. Edit the CID file Removing the Layer Name and Geometry information from the corrupted locations.
3. Import the CID file.
4. Re-add the Layer Name and Geometry information for the City, and the Point and Radius locations.
5. Optionally the EL-CID Help Desk will re-add the location points for Polygons if they can be provided by the Originator.
6. Export a new CID file.
7. The EL-CID Help Desk will send the corrected CID file to the party that sent the CID file.

4.2 RESOLVE IN V6.1

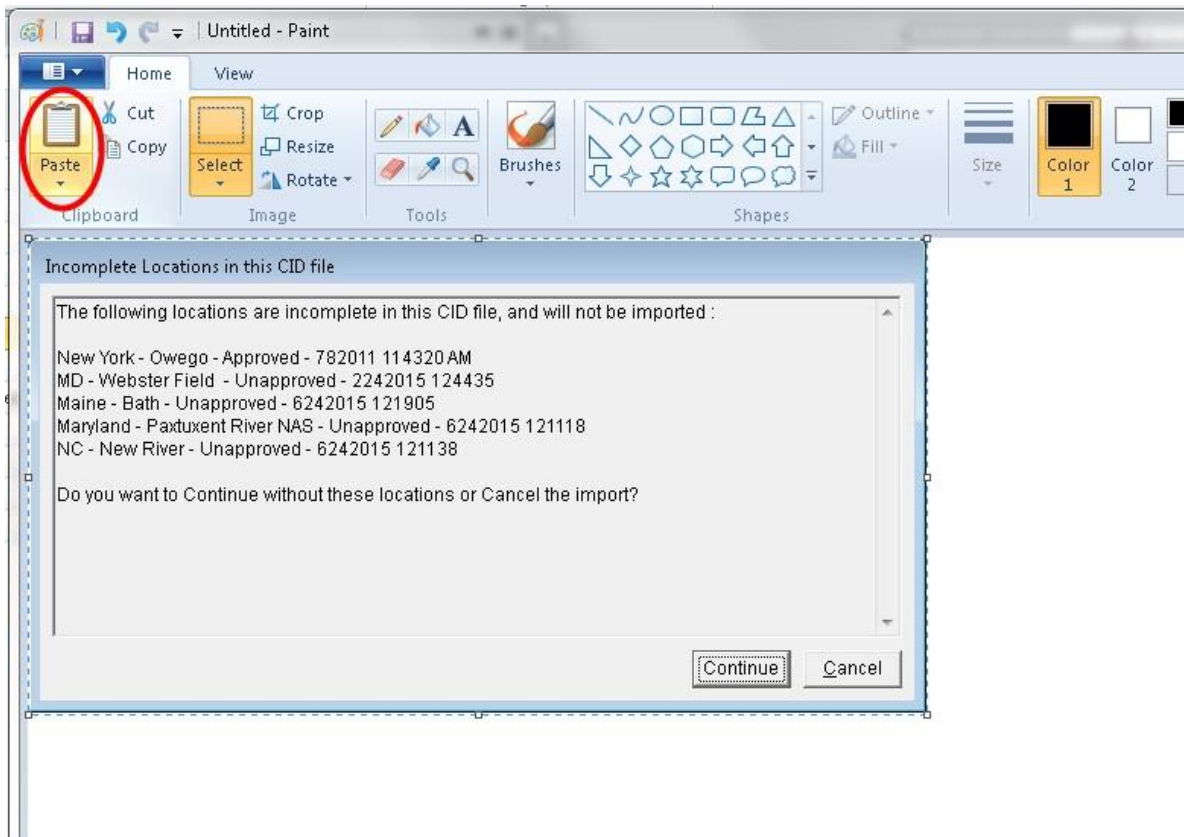
As mentioned above, we will assume that the originator has been informed that the certification they have submitted has a bad location.

The following steps should be performed on a machine with EL-CID 6.1.

1. Attempt to import the certification in question into EL-CID 6.1, and the software will identify all bad locations.

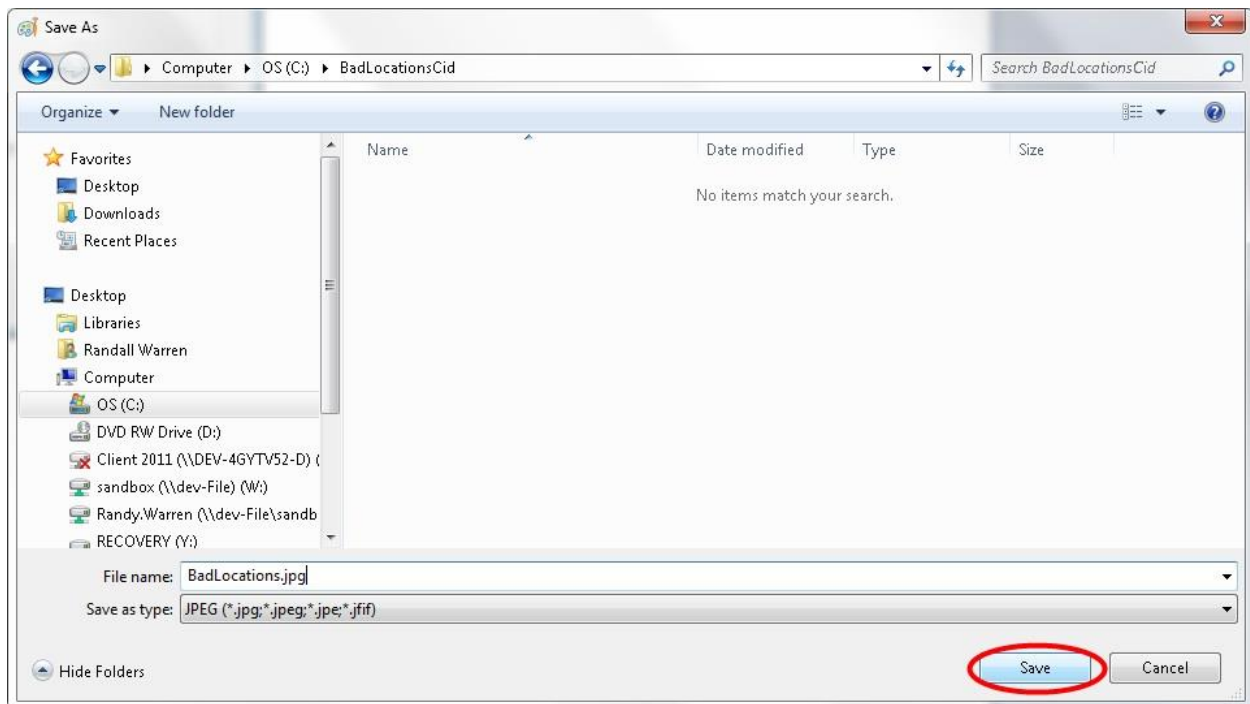


2. Capture the bad locations to an editor such as Microsoft Paint: Press Ctrl and Alt and Print Screen. Then open Windows Paint and click on Paste

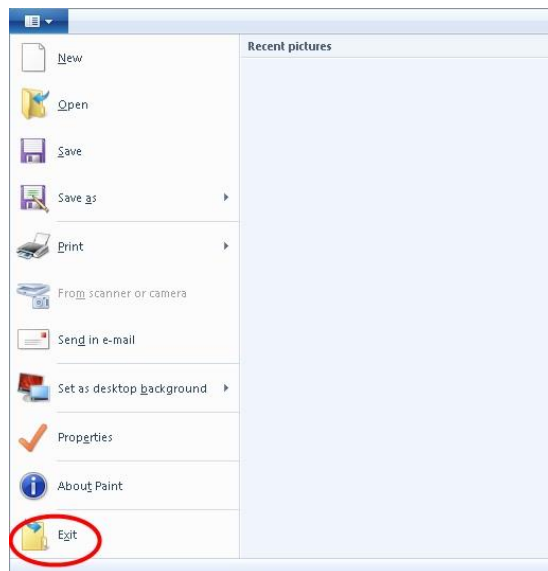


Repairing Corrupted EL-CID Locations

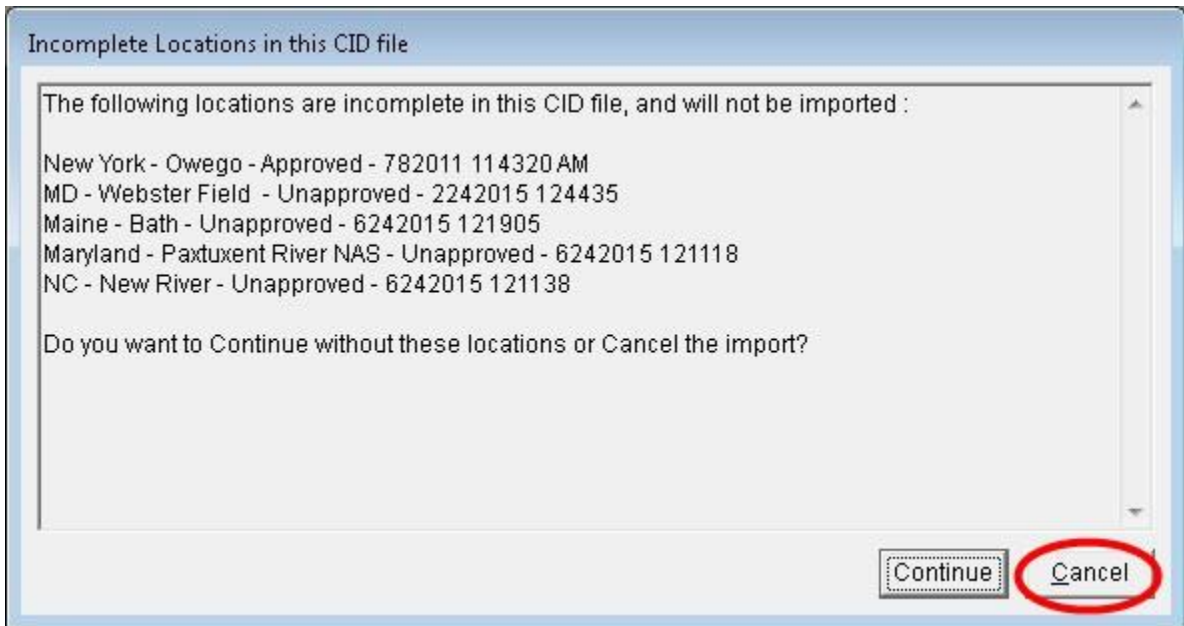
3. Save the image that summarizes the bad locations



4. Close Paint



5. Cancel the Import



PERFORM THE FOLLOWING STEPS ON THE EL-CID V6.0 MACHINE CONTAINING THE CORRUPTED LOCATIONS.

1. Use the Query tool to find each location on the list or screen shot. Write down all of the details about the location or take a screen shot.

UNCLASSIFIED New York	Ossining	Approved	5/23/2003 10:08:09 AM	5/23/2003 11:27:47 AM	Single Point	Cities	41 09'31"N	073 52'16"W
UNCLASSIFIED New York	Oswego	Approved	5/23/2003 10:08:07 AM	5/23/2003 11:27:47 AM	Single Point	Cities	43 27'30"N	076 30'09"W
UNCLASSIFIED New York	Owego	Approved	1/25/2017 12:30:14 PM	1/25/2017 1:35:29 PM	Center Point and Radius	States	42 06'11"N	076 13'14"W
UNCLASSIFIED New York	Patchogue	Approved	5/23/2003 10:08:10 AM	5/23/2003 11:27:47 AM	Single Point	Cities	40 45'41"N	073 01'08"W
UNCLASSIFIED New York	Pearl River	Approved	5/23/2003 10:08:09 AM	5/23/2003 11:27:47 AM	Single Point	Cities	41 03'38"N	074 00'10"W

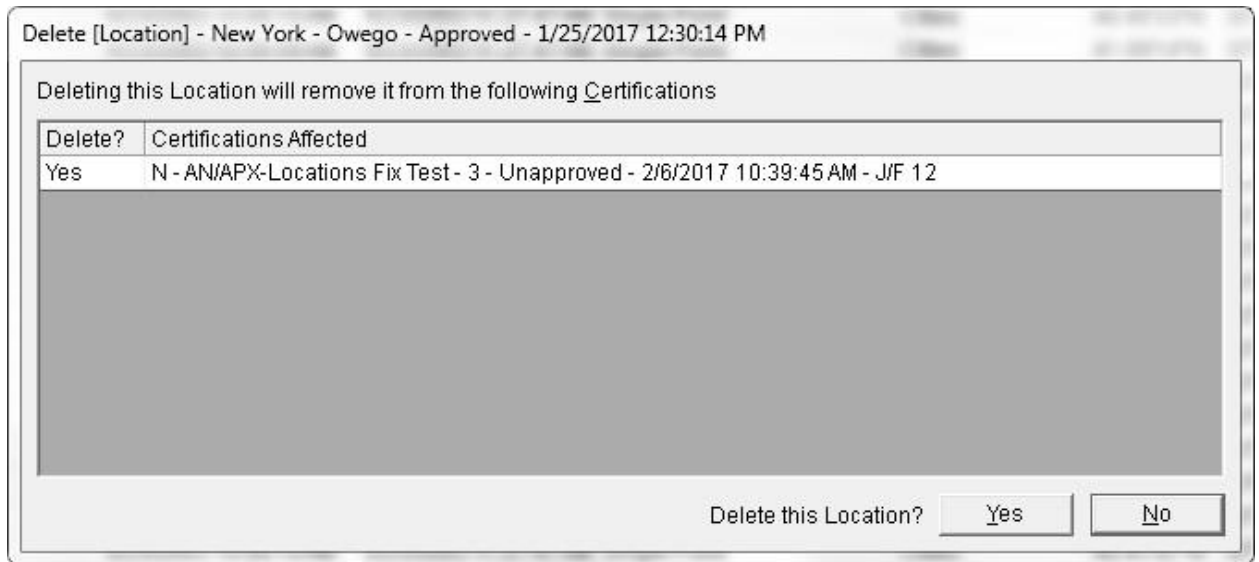
2. Right-click on the location and the select Delete from the menu.

Repairing Corrupted EL-CID Locations

UNCLASSIFIED	New York	North Bellmore	Approved	5/23/2003 10:
UNCLASSIFIED	New York	North Lindenhur		3/2003 10:
UNCLASSIFIED	New York	North Massaped		3/2003 10:
UNCLASSIFIED	New York	North Merrick		3/2003 10:
UNCLASSIFIED	New York	North New Hyde		3/2003 10:
UNCLASSIFIED	New York	North Tonawand		3/2003 10:
UNCLASSIFIED	New York	North Valley Stre		3/2003 10:
UNCLASSIFIED	New York	North Wantagh		3/2003 10:
UNCLASSIFIED	New York	Oceanside		3/2003 10:
UNCLASSIFIED	New York	Ogdensburg		3/2003 10:
UNCLASSIFIED	New York	Olean		3/2003 10:
UNCLASSIFIED	New York	Oneida		3/2003 10:
UNCLASSIFIED	New York	Oneonta		3/2003 10:
UNCLASSIFIED	New York	Ossining		3/2003 10:
UNCLASSIFIED	New York	Oswego		3/2003 10:
UNCLASSIFIED	New York	Owego	Approved	11/25/2017 12:
UNCLASSIFIED	New York	Patchogue	Approved	5/23/2003 10:
UNCLASSIFIED	New York	Pearl River	Approved	5/23/2003 10:

- Edit in Tree View...
- Display/Edit in Map...
- Export...
- Print...
- Clone...
- Delete...
- Replace in Using Certifications....
- Show Using Certifications
- Show Similar Versions
- Compare...
- Compliance Check...

3. In the confirmation window write down the certifications to which this location will have to be re-added or take a screen shot of the window. Then click Yes to delete the location.



4. Create a new location using the information written down or from the screen shot.
5. Add the location to the certifications affected by the deletion.
6. Repeat the above steps until all of the bad locations for the certification have been deleted and re-created.
7. Re-export the certification.

4.3 RESOLVE IN V6.0

If for some reason, there is a need to fix locations within a v6.0 system, then the process is essentially the same as for v6.1, except that Step 2 above cannot be performed within v6.0. Therefore, users will either need a v6.1 installation available to identify bad locations, or will need to contact the EL-CID Helpdesk for assistance.

5. CONCLUSIONS

Unfortunately, resolution of this issue while continuing to use v6.0 is not advised. Even after completely clearing a v6.0 database of all such bad locations, as soon as a file with a faulty location reference is imported, the database is immediately corrupted again, and all future imports and exports will likely experience issues related to this problem. (This would be akin to trying to wipe mud off of your boots while walking in mud. There really is no point.) The best way to know if an EL-CID file is missing a location file is to attempt to import it into v6.1. The new version will identify all missing locations in the file. Then the process recommended above can be followed. If v6.0 users do not have the option to perform a test-import into v6.1, or if the repair process still results in flawed files, the EL-CID Helpdesk can check and repair v6.0 EL-CID files.

6. ACRONYMS

CID	Certification Identification Database
DoD	Department of Defense
DSO	Defense Spectrum Organization
EL-CID	Equipment Location Certification Identification Database
JSC	Joint Spectrum Center
NTIA	National Telecommunications and Information Administration
XML	eXtensible Markup Language