Lookup Tables in the Curator Tool



Revision Date August 1, 2024



This guide documents how the Curator Tool interacts with the server via lookup tables and provides "how to" instructions and details for users who need to maintain their CT's lookup tables.

Please send any questions related to <u>mailto:marty.reisinger@usda.gov</u>.

The Appendix contains <u>change notes</u> pertaining to this document.

Author Martin Reisinger

тос

Lookup Tables Overview	2
Overview	2
Restricted Fields (Lookup Picker)	
Using the Lookup Picker	4
Looking for Organizations when using the Cooperator Lookup	6
What is a Lookup?	6
Lookup Table Warnings	7
Indicators When a Lookup Table Isn't Updated	8
Updating the Lookup Tables	
Updating Lookup Tables After Startup	
Refresh List When Looking for a Specific Lookup Value	
An Initial Startup of the Curator Tool	
Load All and Load Buttons	
Remove the Lookup Table files from the User's PC	15
Auto-Update Checkboxes	16
Resource Demand Alternatives	
Appendices	18
Appendix A: Document Change Notes	18
Appendix B: Developer Notes	19
Developer Notes Regarding the Lookup Table Buttons	

Lookup Tables Overview

Overview



Much more detail is provided below, but know that you can easily and *manually* update lookup tables any time, depending on what you are doing, or what is needed. See the <u>Refresh</u> section.

When adding or editing data into tables, there are times when ideally the Curator Tool controls what can be entered. For example, since every inventory record must have a parent accession record, if you were adding a new inventory record, you would want to select its related accession from a list of existing accessions. (Another way of saying this is you cannot enter an inventory record if its accession record hasn't been already added to the GG database.)

In the following example, the user moved the cursor over the **Accession** field. The Inventory tab is active, and the grid is in **Edit** mode (the violet color is only visible when in Edit mode). When the user rolled the mouse, the cursor changed from a simple pointer to one that includes a small table graphic:



This cursor indicates that the file is using a lookup table; you cannot type in this cell, but rather you must use the Lookup Table window to select an item from a list.

Acces	sions Inventory	Orders	Cooperators	Get Accession Inver	ntory Name	Get Inve	entory Maintenance P	olicy	Get Accession	Action	Get Invento
	Inventory ID	Inve Pref	entory ix	Inventory Number	Inventory Suffix		Inventory Type	Acc	ession	Invento Mainter Policy	ory nance
•	-1						[Null]		N		
									5		

Complete directions for using lookups when entering or editing data is found in the <u>Restricted Fields</u> subsection of the Creating New Records section of this guide.

Restricted Fields (Lookup Picker)

Almost all dataviews have some fields that are "restricted." In any restricted field, you cannot input the data, you must select the data from a list of possible items. Some of these restricted fields use a "LookupPicker" that displays in a popup window. (Other restricted fields use codes that display in a list.)



When in read-only mode, a restricted field will look similar to any other text field. However, in edit mode, when you move the cursor over the field, the cursor may change to a different style,

similar to the following: When you input the first character, the LookupPicker window will display. (Clicking in the cell also opens the LookupPicker window.)

The following example illustrates using the **LookupPicker** for the Taxonomy field. In this example, the user typed "Ru" – the entries were filtered to those items in the table beginning with "Ru."

Acc	ession ID	Accession Prefix	Accession Number	Taxon	Accession Name	Origin	Maintenance Site	Is Core?
3847	717	PI	502588	Rubus caesius	AR-48	Russian Federation	COR (USA026)	
-2								
					LookupPicker HINT: For big lists, o Filter > Ru Hubis ackane Rubis ardfölas Rubis fruticosa Rubis sickinnensis Rubis tinctorum Rubus abactus Rubus abactus Rubus abactus Rubus ackenninus Rubus ackenninus Rubus ackennintus Rubus ackennintus Rubus ackennintus Rubus ackennintus	ase the text filter to sh	orten the list search. Show Only Choices Valid For This: If is_accepted_nai	me

Using the Lookup Picker

1. Click in a cell where data is required; start typing. As you type more letters in the **Filter→** box (#1 in the screen image), the filtering becomes more specific. Use the mouse to click on the desired entry in the list box #3; click **OK** to select that item.

You can also use wildcards when inputting in the filter box. In the following example, the user was looking for accessions having "rei" somewhere within the prefix-number-suffix fields, so the user typed a "%" wildcard before typing the "rei"

Accessions Inventory) rders	Cooperators	Get Site Get Inven	tory Maintenance Pol	icy Get Accession /	Action Get Invent	ory Action 🛛 🞉
Inventory ID	Invent Prefix	tory	Inventory Number	Inventory Inventory Suffix Type		Accession	Inventory Maintenance Policy
2619208	PI		639092	TR02WA	SD	PI 639092	WHEAT
2733636	Ames	_	19293	07ncai01	SD	Ames 19293	NC7-maize.inb
2886073	PI	🍮 Lookup	Picker v1.9.5.0	0		PI 435094	cucu_parl
2944582	PI		big lists, use the tout	filter to aborton the lie	teerreb	PI 639092	WHEAT
2949861	PI	Filter ->	%rei	niter to shorten the its	r search.	PI 435094	cucu_parl
3031550	PI					PI 435094	cucu_parl
3179878	PI	mar 1114	1301 rei 1301 rei			PI 435094	cucu_parl
4016461	PI	mar 1218 mar 2130	1 301 rei Irei			PI 650346	SYSTEM
4016476	PI	mar 22114	41 rei			PI 650347	SYSTEM
4021562	PI	mar 22414 mar 2270	∔rei Irei			PI 597890	SYSTEM
4021563	PI	mar 22702 mar 22801	2 rei Irei			PI 597891	SYSTEM
4021569	PI	mar 22802	2 rei			PI 597892	SYSTEM
4021570	PI	mar 2280. mar 22804	a rei			PI 597893	SYSTEM
4082719	Ames	mar 22805	5 rei			Ames 19293	SYSTEM
4330030	PI	Refresh	List	PI 435094	SYSTEM		
4674746	PI		033032			PI 639092	SYSTEM
• -64					[Null]	<u> 1 1 1 1 1 </u>	

If you are editing and the field already has an entry, and you want something different, blank out (remove) the text shown to remove the original entry and start "fresh." In the following example, Bockleman is initially displayed in the Curator field.

roup	Get Site	Accessions	Get Accession Sou	irce Invento	ry Get In	ventory V	liability Get Invento	ry Maintenance Policy	Get Inv
nt nt	Regenerat Method	ion C	urator		Note	Created Date	Created I		
	[Null]						Default inventory	11/21/2015	SYSTEM,
	FN1117					1 N		8/10/1994 2:08	Sinnott, Q
1	💄 Lookup F	Picker v1.21	.10.4 —	-			Cryogenic cold	8/10/1994 2:09	Sinnott, Q
	HINT: For big	g lists, use th	e text filter to shorter	the list searc	h.		This inventory does	10/17/1994	SYSTEM,
	Filter -> Sn	mall Grains C	ollection, Aberdeen,	Idaho, United	States			8/10/2022 4:51	Reisinger,
	Bockelman,	Harold E., U	SDA, ARS, Natic Sho	w Only Choic	es			8/10/2022 4:51	Reisinger,
			Vali						

et Site	Accessio	ns	Get Accession Source	Inventory	Get Inventory	Viability	Get Invento	ry Maintenance Policy	Get Inventory Mai	int Po
egener ethod	ation	Cu	irator			Note		Created Date	Created By	Mo
.III]						Defaul	t inventory	11/21/2015	SYSTEM, (Defau	
ull]		Boo	ckelman, Harold E., USI	DA, ARS, Na	ational Small G			8/10/1994 2:08	Sinnott, Quinn P.,	9/7
JII]				Bocke	elman, Harold	Ž, USDA	, ARS, Natio	nal Small Grains Co	llection, Aberdeen	, Ida
di1						This in	ventory does	10/17/1994	SYSTEM Guest	8/2

When the Lookup Picker window displays, removing his information will display the complete list of possible items:

erator Group	Get Site Acces	sions	Get Accession Source	e Inventory	Get Invent	ory Viability	Get Invento	ry Maintenance Polic	Get
nishment I Amount	Regeneration Method	Ci	urator			Note		Created Date	Create
	[Null]					Defau	t inventory	11/21/2015	SYSTE
000	INL JU							8/10/1994 2:08	Sinnott
000	Lookup Picke	v1.21	.10.4 —	×	Cryoge	enic cold	8/10/1994 2:09	Sinnott	
	HINT: For big lists	e text filter to shorten t		This in	ventory does	10/17/1994	SYSTE		
	Filter ->			T				8/10/2022 4:51	Reising
	(See narrative),)Parzies, Heiko K. . (staff of North C . (staff of The Da 	ited States A Show Valid State Univer boretum), , , Westwood -	ess			8/10/2022 4:51	Reising		

Lookups can have different options for restricting (filtering) what choices are valid. These items are listed in the box on the right side of the window. In the example below, one is displayed: is_accepted_name. You can constrict or expand the search by selecting or deselecting the check boxes. Keeping this box selected in this example will limit the Taxons to those considered to be the accepted names.



Looking for Organizations when using the Cooperator Lookup

In GG, a cooperator can be a person or an organization. The general guideline for an organization is that its record has no data in the Lastname and Firstname fields. When looking for an organization in a lookup, type: **, ,** (comma space comma space) and then only the organizations will be listed.

What is a Lookup?

The Curator Tool was designed with a set of tables, the "lookups," installed on each user's PC. When the CT is initially installed, a database is established on the user's PC. This database will have about 40 lookup tables. What purpose do they serve? The lookups were intended to speed up queries to the database on the server, which in most organizations is remote.

The basic idea is that the lookups point to records on the server. The lookup table records are not redundant – they do not contain all of the data that is stored in the records in the server's tables. The lookup table records point to the IDs of the server's records.



Unfortunately, sometimes the lookup tables may not ne synchronized properly with the server tables IDs. An extreme example would happen if the database administrator overlaid the server's database with a new version, and records in the newer version had been deleted or added – the user's lookup tables would not be aware of those changes. Fortunately, most of the time, the lookup are synchronized, because every time the user starts up the CT, the lookup tables are automatically updated in the background.

Lookup Table Warnings

Users are prompted the first time they open the CT to update their lookup tables. After that, the lookups maintain themselves automatically. You can also update the lookup tables manually at any time.

The first time* you start the Curator Tool, you will be prompted if your lookup tables are not completely updated:

Missing	Missing Lookup Table Data									
♪	There are 8 lookup tables with missing data. To maximize performace of this application it is recommended that all lookup tables be downloaded. Would you like to do this now?									
	Yes No									

* The number of lookup tables varies, depending on the database.

The rest of this section contains detailed instructions on handling the lookup tables.

After the initial startup, every time the CT starts, it automatically updates the lookups – *all of the lookups*, sequentially. When you use the CT on a daily/regular basis, this updating should not take long, especially if the connection to the server is good. The more frequently you use the CT, the less time it takes to update them when you start up the CT. On the other hand, if you use the CT on an infrequent basis, the CT will take longer to update the lookup tables in order to reflect all of the new records that have been added to the GG database since the last time the CT was used.

Indicators When a Lookup Table Isn't Updated

As one example, when the Taxonomy Lookup table needs updating, you may notice numbers displaying in a dataview's **Taxonomy** field or a search window's **Taxon** field instead of the actual taxonomic name.

💀 Accession Form	
🚺 🖣 10 🛛 of 10 🕨 🕅 🕂 🗙	
Accession Name	Accession ID 508947
Accession Prefix Accession Number VICUÑA_ID 95041	Accession Suffix Ig
23113	
Initial Received Date Initial Received Date Format	
Site	

	Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Accession Name	
	384717	PI	502588		26865	AR-48	1
	384718	PI	502589		37382	AR-220	5
	431014	PI 🔓	548888		<mark>43269</mark>	14121	7
	431015	PI	548889		26840	14022	7
	431016	PI	548890		26840	14167	6 💙
<	Ш						>

Another indicator when a Lookup Table isn't updated occurs when the list of items isn't complete. For example, when in the **Taxon** field and using the Lookup Picker, you may realize there are missing taxons. In that case, you should load the Taxonomy Lookup table. (These numbers are the values stored in the records' key field in that particular lookup table.)

🌯 Lookup Table	2 Loader v1.9.9.7	- 0	×
Click any Load b	utton (or the Load All button) to begin loading	Resource Demand C Low O Med	High
	Sys Table Field Lookup	Update	^
	Sys Table Lookup	Update	
	Taxonomy Common Name Lookup	Update	
	Taxonomy Species Citation Lookup	Update	
	Taxonomy Species Lookup	Update	
	Taxonomy Use Lookup	Update	
	Web Cooperator Lookup	Update	~

In the illustration below, the orange color is the indicator that the respective lookup tables are not current

In the CT, sometimes a warning message will display, indicating the related lookup table is not current:



or...

[Accessions Inventory Orders Acc.Name 🚒										
		Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type		Inventory Maintenance Name			
	•	-1				[Null]	~				
		-2				[Null]	~				
		H	LookupPicker INT: Forbiglists, use Iter-> a	the text filter to shorte	en the list search.						
	Partiall	y Loaded Lookuj	o Table								
	WARNING! The system can not perform Update for 'inventory_maint_policy_lookup' until the table has been successfully downloaded OK										

Updating the Lookup Tables

Every time the Curator Tool is started, the lookup tables are automatically updated. However, you can manually update the Lookup tables at any time while the Curator Tool is running, but generally that is not necessary.

The status bar in the Curator Tool window showing the lookups being updated at start up:

4 4 0 of 0 🕨 🕅 🖶 💥			Refresh Data
ata Editing			
Edit Data	Save Data	Cancel	



Because the lookup tables are maintained automatically, in a production environment, you normally would never need to manually update the lookup tables.

Updating Lookup Tables After Startup

You can manually update lookup tables any time, depending on what you are doing, or what is needed.

Refresh Data button

Click the **Refresh Data** button on the main CT window to update the specific Lookup tables used by the dataview currently being viewed. However, the **Refresh Data** button is now programmed to ultimately update all of the lookup tables. First the lookup tables associated with the *current* dataview are refreshed; you will need to wait for that process to finish. After that, all of the lookups will be refreshed in the background (updating to match the server) –you do not need to wait for them to finish updating.

Code Value Language	Get Name Group	Get Inventory Act	tion Get Inventory	Maintenance Policy	Orders	Web Order Request	Order Request It	
Web Order Request ID	Web Cooperator	Last Name	Title	First Nam	e	Organization	Address Line 1	Ad 2
<								2
4	● ● ● ●	×				(🕞 🕞 Refresh D	lata)
Data Editing								
Edit Data	Save Data	Cancel						



Since the **Refresh Data** button ultimately updates all of the lookups, you can use that button in lieu of clicking on the **Load All** button in the **Lookup Table Loader** window (a method described in a following section).

When you click **Refresh Data** -- *all* of the lookup tables update, not just the lookups used by the current dataview. But *the lookups are not all loaded the same way*. Three actions happen when the **Refresh Data** button is pressed:

- first, the lookup tables used by the *active* dataview are updated in the *foreground* meaning you can't do anything until they are updated
- the data in the dataview is then refreshed
- after that is complete, the *remaining* lookups get updated in the *background*

Recommendation: use a dataview that is fairly simple - such as the get_site DV. On the left panel, open an empty folder. Click the **Refresh Data** button. The get_site DV uses only one lookup -- the cooperator_lookup. Updating that dataview in the foreground should go fairly fast. After that updating has completed, you are free to continue working with the CT while the remaining lookups are updating in the background.

Refresh List When Looking for a Specific Lookup Value

When using the **LookupPicker** window, such as when looking for the Taxon for an Accession, you can click the **Refresh List** button to ensure that the list is current. You do not need to click every time – only when the item is not listed but you know it should be – clicking the **Refresh List** button ensures that the list is current.

After updating, if the item is not listed, in this case the Taxon, you will know then that the item is not in the database.



An Initial Startup of the Curator Tool

When a newly installed Curator Tool is started the first time, you will be prompted to update all of the lookup tables "There are *nn* lookup tables ...recommended that all lookup tables be downloaded." Select **Yes**. (The number will vary, depending on the CT version and the data in the database.)

Missing	Lookup Table Data
⚠	There are 12 lookup tables with missing data. To maximize performace of this application it is recommended that all lookup tables be downloaded. Would you like to do this now?

Note

Clicking the **Yes** button does not update the lookup tables; selecting "**Yes**" only displays the **Lookup Table Loader** window. Any lookup tables needing to be updated are highlighted in orange – typically their adjacent button will be labeled **Update**. Click on all of the **Update** buttons to update – *just viewing the window does not initiate the updating process*. Click **Load All** when this is a new CT installation.

You can minimize the window and do other work on your PC; the updating will proceed in the

background.



Load All and Load Buttons

Note

Sometimes, during a testing phase , a GG administrator may replace one database with a completely new database. In this situation, click the **Load All** button *-twice*. The first time the **Load All** button will update, that is, load only new records into the Lookup tables. Wait until the progress activity is visibly complete before clicking the **Load All** button a second time. The second time causes each lookup table to be dropped and re-added (effectively loading the lookup table from "scratch" (from the beginning) – this may require one hour or so, depending on the size of your data). In typical production environments, the scenario of replacing one database with another will not occur – only a new CT installation will require a **Load All** to be invoked.

To ensure that your lookup tables are current, review the **Lookup Table Loader** window and examine the second column labeled **Lookup Table Name**. Any table whose name is displayed in orange is not current and should be updated; click the **Update** button of the corresponding lookup table. (Sometimes, as shown in the example below, the table name wasn't in orange, but there was an **Update** button – this situation is rare.)

4	Lookup	.6.43		×	
Click any Load b	utton (or the Load All button) to begin loadin	Re	source Demand Low O Med		
auto ✔ Update	Lookup Table Name	Progress	Load All	Activity	^
	Accession Inventory Group Lookup		Reload		-
	Accession IPR Lookup		Reload		_
	Accession Lookup		Reload		
	Accession Pedigree Lookup		Reload		-
	Accession Source Lookup		Update		
	Cooperator (Big) Lookup		Reload		-

Some lookup tables may be empty. This is the case if the corresponding table in the database does not have any records yet. For example, in a new database, the **Genetic Marker** table will be empty. (Alternatively, use the Refresh Data option – see the <u>Refresh Data</u> section.)

Manually Updating Lookups Using the Lookup Table Maintenance Button

Use the **Other Options** tab any time you want to initiate the loading/updating of any of the Lookup Tables. Click on **Other Options** tab; then click the **Lookup Table Maintenance** button:

Accession ID	Accession Prefix	Accession Number	Taxon	Accession a Name	Default cell color
384717	Р	502588	Rubus caesius	AR-48	Alternating row color
384718	PI	502589	Rubus sp.	AR-220	Max rows allowed: C 10000
431014	PI	548888	Rubus acanthop	14121	
431015	PI	548889	Rubus adenotric	14022	quely Paging Size. 1000
431016	PI	548890	Rubus adenotric	14167	
431017	PI	548891	Rubus sp.	14073	Edt Mode
431018	PI	549892	Rubus bogotensis	14131	🖂 Highlight Changed Data
431019	PI	548893	Rubus bogotensis	14179	Hide Unchanged Rows
431020	PI	548894	Rubus bogotensis	14187	Wan about Lookun Table Linda
431021	PI	548895	Rubus bogotensis	14195	
431022	PI	548896	Rubus coniaceus	14027	Lookup Table Mantenance
431023	PI	548897	Rubus coriaceus	14039	Save User Settings Now
431024	PI	548898	Rubus coniaceus	14061	
431025	PI	548899	Rubus coniaceus	14211	Active Web Service:
431026	PI	548900	Robert elinition	14075	locahost



The **Other Options** tab also has a **Warn about Lookup Table Updates** checkbox that should remain selected (checked) to enable this lookup table warning.



Remove the Lookup Table files from the User's PC

Administrators / users with elevated Windows privileges can use SQL Server Management Studio to physically remove the Lookup table files from the user's PC. Best done when the CT is not actively running. This forces a rebuild of the Lookup tables which should then be current and properly reflect the server records.

→ 👻 🕇 🕨 This PC 🔸 <mark>OS (C:) → Users → Marty.Re</mark> i	isinger > AppData > Roaming > GRIN-Global > Curato	r Tool 🔸 Lookups 🔸	マ ひ Search Le
AppData	^ Name	Date modified	Туре
	pullGlobal demo	C/7/202/ 5-22 P	
📙 Roaming	📮 🗉 🚬 _ars_grin_gov		File folder
	GRINGlobal_npgstest1_agron_iastate_edu	5/17/2023 11:06 AM	File folder
	GRINGlobal_npgsweb_ars_grin_gov	7/5/2024 6:26 PM	File folder
	GRINGlobal_raisin_ars_grin_gov_8081	6/13/2023 5:06 PM	File folder
	GRINGlobal_training_ars_grin_gov	Date creat/3/2024 6:37 PM1:20 AM	File folder
			che dat
gguerraber-printer GRIN-Global Admin Curator Tool Lookups Reports	This example is related to an account. The name will be d the organizations' naming c Once deleted, the next time proceed to rebuild the files i	n USDA NPGS user's lifferent, depending on onventions. the CT is started, it will n this folder.	
The dataset			

Auto-Update Checkboxes

The lookup tables are listed alphabetically. Any tables not current are highlighted (in orange). All checkboxes on the left (by default) are selected (checked) – the checkmark indicates that these lookup tables will be *automatically maintained*. *Keep these checked*.

8		L	ookup Table Loa	ader v1.9.6.41	_ 🗆 🗾	×
Click any L	oad bu	tton (or the Load All button) to begin loading			Resource Demand O Low O Med O High	
Auto Update	•	Lookup Table Name	Progress	Load All	Activity	^
		Accession Inventory Group Lookup		Reload		
	✓	Accession IPR Lookup		Reload		
	•	Accession Lookup		Reload		
	•	Accession Pedigree Lookup		Reload		
		Accession Courses Lookura		Deland		



If you turn off your PC while tables are still being loaded, the next time you start the Curator Tool the loading will continue loading where it had previously stopped.

Resource Demand Alternatives

(For most fairly current computers, this topic is a "non-issue.") The **Lookup Table Loader** window has a **Resource Demand** set of radio buttons, by default the **High** button is selected:

	L	ookup Table Loa	der v1.9.6.41	
ick any Load bu	tton (or the Load All button) to begin loading	l		Resource Demand C Low O Med High
Auto V Update	Lookup Table Name	Progress	Load All	Activity
•	Accession Inventory Group Lookup		Reload	
•	Accession IPR Lookup		Reload	
•	Accession Lookup		Reload	
•	Accession Pedigree Lookup		Reload	

Before clicking on the **Load All** or any **Load** button, first indicate how much of your computer's resources should be allocated to the background downloading process, relative to everything else that you will be running on your PC. Most computers can handle the default "**High**" for maximum performance. (Later, if you find that the process aborts, you can lower the setting.)

You can't change the resource demand option after you proceed with the loading. So how do you determine which level to select? You might try the "High" option first; worst case is that at some point the PC displays a "Table Load Error" message similar to the following:

Lookup Table Load Error
Error retrieving data for lookup table: 'GEOGRAPHY_LOOKUP' Aborting this background task
Full Error Message:
The operation has timed out
ОК

When that happens, proceed by loading the Lookup Table Loader again, but try the next lower **Resource Demand** level.

Appendices

Appendix A: Document Change Notes

- August 1, 2024

• added text and related image showing the Lookup folder on the CT user's

- August 10, 2022

• added section from CT User Guide regarding filtering in a lookup for organizations only

- September 21, 2020

• split out this material from CT User Guide

Appendix B: Developer Notes

Developer Notes Regarding the Lookup Table Buttons

🂐 Lookup Table	Loader v1.9.9.7					×
Click any Load bu	itton (or the Load All button) to begin loading		Resource O Low	Demand O Med	l 🖲 High	
auto ☑ Update	Lookup Table Name	Progress	Load All	Act	ivity	^
	Accession Inventory Group Lookup		Reload)		
	Accession IPR Lookup		Reload			
	Accession Lookup		Reload			
	Accession Pediaree Lookun		Reload			-

The button will display Load if

 The local Lookup table has never been successfully loaded – meaning that the local Lookup database does not have a last known status of COMPLETED or UPDATED (the status of the each Lookup table is updated to COMPLETED when a LOAD or RELOAD is successfully completed and is marked as UPDATED when any update of that table completes successfully).

The button will display Reload if:

- The local Lookup database has a last known status of COMPLETED or UPDATED (the status of each Lookup table is updated to COMPLETED when a LOAD or RELOAD is successfully COMPLETED and is marked as UPDATED when any update of that table completes successfully).
- The Lookup table has successfully completed an UPDATE during the current CT session (something that happens automatically during CT start up but can take a while for some larger LOOKUP tables – such as Inventory).

The button will display Update if:

- The local LOOKUP database has a last known status of COMPLETED or UPDATED (the status of each LOOKUP table is updated to COMPLETED when a LOAD or RELOAD is successfully COMPLETED and is marked as UPDATED when any update of that table completes successfully).
- 2) The lookup table has NOT finished completing an **UPDATE** during the current CT session.