Attachment Wizard



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This document includes changes to the revised attachment wizard included in Curator Tool version 1.21.10.4 and later versions.



Please send any questions related to the wizard to <u>marty.reisinger@usda.gov</u> or <u>feedback@ars-grin.gov</u>.

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

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Initial Tips



Before invoking the Attachment Wizard, configure your CT so that the *selected* GG records in the right panel, the datagrid, are the records to which the image/document files are to be attached.

Remember also that you can <u>drag files directly</u> from Windows Explorer to an item in a CT list.

In the example below, the user has the **Inventory** dataview active before invoking the Attachment Wizard. Images will be attached to the inventory records:

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Include Sub-Folders Session 5 ATTCH ATTCH Root Folder MAR_22_RRG MAR_21_RRG MAR_22_RRG MAR_22_RRG MAR_22_RRG MAR_24_RRG MAR_14_RRG MAR_14_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_12_RRG MAR_12_RRG MAR_12_RRG MAR_14_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_12_RRG MAR_12_RRG MAR_12_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_12_RRG MAR_12_RRG MAR_12_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_12_RRG MAR_12_RRG MAR_12_RRG MAR_15_RRG MAR_15_RRG MAR_15_RRG MAR_12_RRG MAR_15_RRG M		
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MAR_1_RRG_SD MAR_1_RRG2022_SD MAR_1_RRG2_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_8_RRG MAR_8_RRG MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD MAR_1_RRG3_SD	ssion/Invento) Taxonomy	



Ensure the name of the file being attached – the image, docx, PDF, etc., is correct. When attaching files to accessions or inventory, the wizard attempts to match the file's name with a corresponding inventory or accession identifier.



When referring to files being attached, throughout the text, rather than state "images/documents" we'll simply state "images" or "files." The attachment wizard will be referred to as either the **Attachment Wizard** or simply the "wizard."



Multiple wizard windows can be open simultaneously.

Background

The Curator Tool's **Attachment Wizard** can be used to upload images and other files (such as PDFs, spreadsheets, documents) to the GRIN-Global (GG) server.

However, besides uploading files, the **Attachment Wizard** also creates "attachment" records in the GG database. Each attachment record points to an uploaded file and makes it possible to document the attachment records with descriptions, dates, and other information pertaining to the image or document file. The public website can display this information (if the attachment record is designated as web visible.)

GRIN-Global has many attachment tables; prior to release 1.21.10.4, the attachment wizard uploaded attachments specifically with *inventory* records. The files were attached either to a physical inventory record or to an accession's system inventory record, but always in the GG's **acc_inventory_attach** table. The revised wizard, titled the **Attachment Wizard**, is very similar to the prior **Inventory Attachment Wizard** in appearance and has a few more options, but the main enhancement is the ability to attach to additional record types.



When attached to a system inventory record (**Inventory Type** **), the file is considered to be associated with the accession and not with a specific inventory lot.



If you are using an older CT version, prior to 1.21.10.4, use the <u>relevant documentation</u> which is available at the GG website.

Attachment Types

Beginning with release 1.21.10.4 ,the wizard can attach files to eight GG attach tables. GG attachment types to which uploaded files will be associated:

- Inventory
- Crop
- Crop Trait
- Crop Trait Code
- Method
- Accession Inventory Group
- Order Request
- Taxonomy Family
- Taxonomy Genus
- Taxonomy Species



URL links can also be treated as "attachments." However, they are added to the database in a different manner than physical file attachments. Refer to the <u>URL Links</u> section for details.

Attaching Files in the Curator Tool

Three basic methods exist for attaching files:

- 1. Drag files directly from Windows Explorer to an item in a CT list
- 2. <u>Drag files into the Attachment Wizard</u> (from Windows Explorer to an item in wizard)
- 3. <u>Use the Batch Files</u> method in the Attachment Wizard (this method opens a Windows Explorer window in which you can then select the containing folders or the files directly)

The first method is perhaps the simplest. The third method above is generally used when you have many files to be attached at one time.

Deleting Attachment Files



Don't confuse deleting the attachment *records* with deleting the attachments. Currently, if the attachment resides on a storage location that the Middle Tier has permission to delete the file, then the file will be removed from the storage location - but if the Middle Tier does not have permission to remove files, then the attachment file will remain at that location. However, the attachment record will be deleted.

In NPGS, all GG attachment files added via the attachment wizard can be deleted.

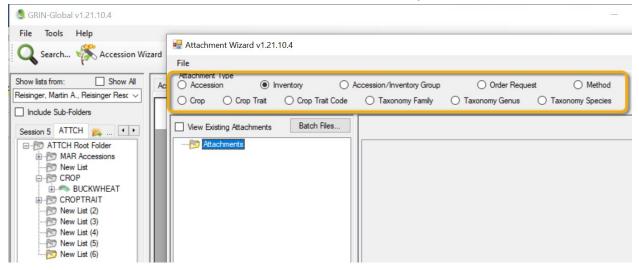
When looking at the grid in the attachment wizard, you are viewing the attachment records.

Attachment Wizard v1.21.10.4					- 🗆
File Attachment Type Accession	cession/Inventory Group	O Order Re	auest O M	Aethod Save	Save and Exi
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View Existing Attachments Batch Files				View	: O Tile O Deta
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	Accession Inventory	Accession	Inventory	Image Virtual Path	Thumbnail Virtual Path
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/paper.pdf	Accession Inventory Attach ID				Virtual Path
 AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg 	Accession Inventory	Accession MAR 15 RRG MAR 15 RRG	Inventory MAR 15 RRG ** MAR 15 RRG **	Image Virtual Path AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit 01.jpg	Virtual Path
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/ears.jpg	Accession Inventory Attach ID 1246649	MAR 15 RRG	MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A	Virtual Path AIA/Humulus/21
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/ears.jpg	Accession Inventory Attach ID 1246649 1246647	MAR 15 RRG MAR 15 RRG	MAR 15 RRG ** MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit_01.jpg	Virtual Path AIA/Humulus/21 AIA/Humulus/21
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/ears.jpg	Accession Inventory Attach ID 1246649 1246647 24665	MAR 15 RRG MAR 15 RRG MAR 15 RRG	MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit_01.jpg AIA/Humulus/2125442/doc_xmple.pdf	Virtual Path AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/ears.jpg	Accession Inventory Attach ID 1246649 1246647 246665 1246650	MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG	MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit_01.jpg AIA/Humulus/2125442/doc_xmple.pdf AIA/Humulus/2125442/mar_1_2018-09-04	Virtual Path AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/ears.jpg	Accession Inventory Atach ID 1246649 1246647 246655 1246650 1246667	MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG	MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG ** MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit_01.jpg AIA/Humulus/2125442/doc_xmple.pdf AIA/Humulus/2125442/mar_1_2018-09-04 AIA/Humulus/2125442/google world cup.png	Virtual Path AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21
AIA/Humulus/2125442/google world AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/hum_leaf.jpg AIA/Humulus/2125442/ears.jpg AIA/Humulus/2125442/paper.pdf	Accession Inventory Attach ID 1246649 1246647 246665 1246650 1246667 246667	MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG MAR 15 RRG	MAR 15 RRG ** MAR 15 RRG **	AIA/Humulus/2125442/Humulus_lupulus_A AIA/Humulus/2125442/fruit_01.jpg AIA/Humulus/2125442/doc_xmple.pdf AIA/Humulus/2125442/mar_1_2018-09-04 AIA/Humulus/2125442/google world cup.png AIA/Humulus/2125442/hum_leaf.jpg	Virtual Path AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21 AIA/Humulus/21

To delete an attachment record, click in the left row header cell(s) to select records to be deleted; press the **Delete** key; click on the **Save** or **Save and Exit** buttons. Hold the **CTRL** key when clicking to select multiple records, or SHIFT for contiguous records (rows).

Main Wizard Window

The image below illustrates a wizard window when initially opened. In this example the CT's folder in the left panel was empty and therefore no records were listed in the grid on the CT's right panel. Because of this situation, the wizard's default radio button, **Inventory**, has been selected:





Since the 11 attachment types are selected by using their respective radio buttons, this implies that only one type may be attached at one time.

When you drag/drop a file into the wizard when the **Accession** radio button is selected, the wizard will assign the file to the system inventory record (type = **) regardless of which child inventory the file was dragged onto.

If you drag the same file onto a (physical) inventory record when the **Inventory** radio button is selected, the wizard will assign it to the inventory record that the file was dragged onto.

Steps when using the Wizard (Summary)

Steps:

- in the CT's left list panel, start with a folder (list) of items pointing to one of the valid record types that can have attachments
- 2. in the right panel (the datagrid area), have the corresponding dataview active (Crop dataview if attaching to crops, etc.) and select the records with which you intend to attach files
- 3. invoke the Attachment Wizard
- 4. either highlight and select images in Windows Explorer and drag them to a folder icon in the wizard's left panel, or click the wizard's **Batch Files...** button



When using the Batch Files method, the Windows names of the folder/files are critical. When dragging files to the wizard and attempting to attach to a crop, the manual drag will work

regardless of the path/filename. But when using the Batch Files method, the wizard looks for a match to the item selected in the CT list and if there isn't a match, the attaching will fail.

Viewing Images and Filetypes in the Public Website

Images

Accession image displays on the search results page:

	×	×		_					
Simple Search	List Search	Advanced Se	arch Resul	ts					
our query includ	ed: All accession	ns MAR 5 RRG							
View Observa	tion Data								
elected item(s) b	Add to Ca	rt Add to Wish L	ist View Acces	sion Details					
								S	
Basic Info	Source Info Show	all columns	ow/hide columns	Show 10 rows	Excel			Search:	
Showing 1 to 1	of 1 entries								Previous
			TAXONOMY	ORIGIN		÷	IMAGE	¢	AVAIL
□ M4	R 5 RRG				NC7				Not Avai
	View Observar elected item(s) b Basic Info	View Observation Data View Observation Data elected item(s) below: Add to Ca Basic Info Source Info Show Showing 1 to 1 of 1 entries ACCESSION	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Cart Add to Wish I Basic Into Source Info Show all columns Showing 1 to 1 of 1 entries ACCESSION NAME MAR 5 RPG MAR 5 RPG H	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Access Basic Info Source Info Show all columns Show/hide columns Showing 1 to 1 of 1 entries Accession NAME TAXONOMY	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Accession Details Basic Info Source Info Show all columns Show/hide columns Show 10 rows Showing 1 to 1 of 1 entries ACCESSION NAME TAXONOMY ORIGIN MAR 5 RBG MAR 5 RBG Humulus lupulus L	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Accession Details Basic Info Source Info Show all columns Show/hide columns Show 10 rows Excel Showing 1 to 1 of 1 entries ACCESSION NAME TAXONOMY ORIGIN REPOSITORY MAR 5 RBG MAR 5 RBG MAR 5 RBG Humulus lupulus L NC7	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Accession Details Basic Info Source Info Show all columns Show/hide columns Show 10 rows Excel Showing 1 to 1 of 1 entries ACCESSION NAME TAXONOMY ORIGIN REPOSITORY Image: Column State MAR 5 RBG MAR 5 RBG MAR 5 RBG Humulus lupulus L Nr7	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Accession Details Basic Info Source Info Show all columns Show/hide columns Show 10 rows Excel Showing 1 to 1 of 1 entries ACCESSION NAME TAXONOMY ORIGIN REPOSITORY IMAGE	Dur query included: All accessions MAR 5 RRG View Observation Data elected item(s) below: Add to Cart Add to Wish List View Accession Details Basic Info Source Info Show all columns Show/hide columns Show 10 rows Excel Showing 1 to 1 of 1 entries Accession NAME © TAXONOMY ORIGIN REPOSITORY IMAGE MAR 5 RBG MAR 5 RBG Humulus lupulus L NC7

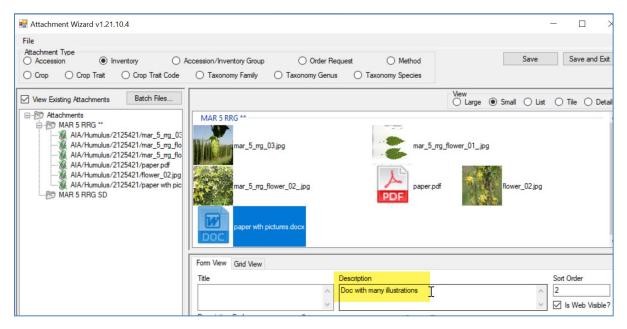
When the image is clicked, if more images exist, image thumbnails will be displayed:



Non-image attachments, such as PDFs, will be listed on the **Other** tab of the Accession detail page. "Document" is the default text for the link; supply a Description to provide meaningful text.

~~~~~						
Summary Passpor	t Taxonomy	Other Pedigree	IPR	Obse	rvation	
Annotations		G			Pathog	jens
Other Links					Vouche	ers
Document Document						
Actions						

Details for:	MAR 5 RRO	5, Humulus l	unulus I	vər lunulu		5 RRG
Details for.		s, mumuus i	uputus L.	van tuputu	5, IVI <i>P</i> AIN	JING
Summary	Passport	Taxonomy	Other	Pedigree	IPR	Observ
Annotatio	ons					
Other Lin	ĸs					
Document Doc with n	nany illustrati	ons				
		4				



## Viewing Existing Images (and other File Types) in the CT

The attachment wizard can be used to view existing images previously related to items listed in the Curator Tool.

In the CT's left list panel:

- 1. in the left List Panel, start with a list of items pointing to any of the valid record <u>types</u> that can have attachments / select the folder or list item
- 1. in the right panel, the datagrid, have the respective dataview active and select the records with which you intend to attach files
- 2. invoke the **Attachment Wizard**
- 3. click the wizard's View Existing Attachments checkbox

In the following example, a **Crop** item is selected in the CT's left List Panel. Notice how the **Crop** radio button in the wizard is active. Shown here, the user clicked the **View Existing Attachments** (4) box to display the images:

	Show lists from: Show All	Get In	ventory Maintenance	e Policy Get Accessi	on Source Get Crop	Get Code Value L	anguage Get Acces	sion Inventory Atta
1	Reisinger, Martin A., Reisinger Resc 🗸			E2.2				
	Include Sub-Folders		Crop ID	Crop	Note	Created Date	Created By	Modified Date
l			418	BUCKWHEAT	Contains	1/27/2017 11:17	Leon, Blanca, U	1/5/2021 7:27 A
l	Session 5 ATTCH 🚒 • •				2			
	ATTCH Root Folder		🖳 Attachment W	/izard v1.21.10.4	3			
	CROP		File					
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	100 New List (2) 100 New List (3)		Crop O	Crop Trait O Cro	op Trait Code 🔿	Taxonomy Family	O Taxonomy Ger	nus 🔿 Taxon
1	🗁 New List (4) խ New List (5)		ew Existing A	ttachments Ba	tch Files			
I	New List (6)	4	E Attachmer		B	UCKWHEAT		
I			BUCK		AT (222		and the second sec	
			(// cn	op_attach/BUCKWHE	:A 1 / 330px-Ja		3M	

## **Selective Viewing of Attachments**

When you have many attachments, it is possible to select attachment records from a list in the datagrid and then launch the Attachment Wizard.

File Tools Help					
Q Search 🔆 Accession Wizard	<b>K</b> A	ttachment Wizar	d 🌋 Cooperator V	/izard 🌋 Ord	ler Wizard 🏾 🏹 Viability Wizard
Show lists from: Show All Martin A., Reisinger Resource Group, Inc.	Get A	ccession Inventory	Attach Get Web Order	Request Get Cro	p Attach   Get Crop   Get Crop Trait   Get Inventory Viabil
Include Sub-Folders		Inventory Attach ID	Accession	Inventory	Image Virtual Path
Session 5 ATTCH 🚒 ( )		1246700	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/mar_5_rrg_03.jpg
MAR_23_RRG     MAR_24_RRG     MAR_24_RRG		1246701	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/mar_5_mg_flower_01jpg
MAR_25_RRG MAR_3_RRG MAR_3_RRG MAR_4_RRG MAR_5_RRG MAR_5_RRG_**		1246702	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/mar_5_mg_flower_02jpg
		1246707	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/flower_02.jpg
		1246709	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/paper.pdf
		1246710	MAR 5 RRG	MAR 5 RRG **	AIA/Humulus/2125421/paper wth pictures.docx
MAR_5_RRG_SD		1246711	MAR 5 RRG	MAR 5 RRG **	https://npgsweb.ars-grin.gov/trac/GG/ticket/2356
MAR_5_RRG		1246712	MAR 5 RRG	MAR 5 RRG **	http://grin-global.org/

Click the Attachment Wizard icon to see only the three highlighted records:

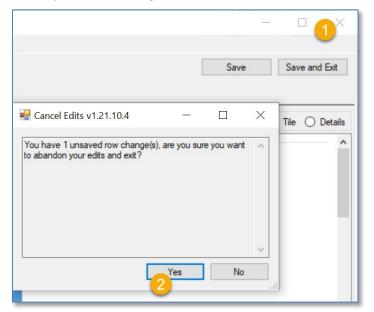
🖳 Attachment Wizard v1.21.10.4		- 🗆 X
File Attachment Type Accession Crop Crop Lait Crop Trait Code Taxo	nventory Group Order Request O Method Inomy Family O Taxonomy Genus O Taxonomy Species	Save Save and Exit
View Existing Attachments Batch Files  View Existing Attachments  MAR 5 RRG **  Attachments  Attachments	MAR 5 RRG **  http://grin-global.org/	View Large  Small List Tile Details Rower_02.jpg Paper wth pictures.docx

## **Editing Attachment Records**

If you own the attachment records or have the permission to edit the records, you can view them in the attachment wizard, make the changes in the respective fields, and then save the records. Either wizard view tab may be used (**Form View** or **Grid View**).

## **Canceling Changes**

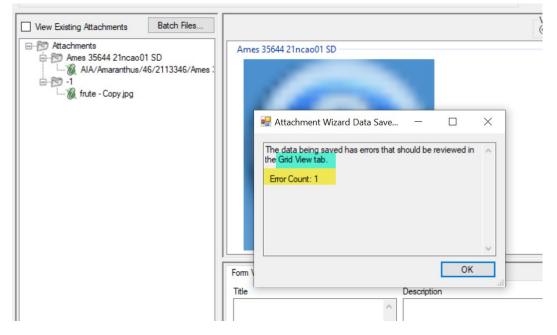
One way to cancel changes is to close the wizard window before saving:



## **Errors**

## When Attaching

If the Wizard cannot determine which GG record to attach to, an error message will display:



In the wizard's **Grid View** tab, information about the error can be viewed by rolling the mouse over the red "I." Other indicators will be visible. A valuable clue occurs when a "-1" displays instead of an actual GG item. Also, instead of pointing to a pathname on the server, the path will be to your PC's drive (C: below).

🖳 Attachment Wizard v1.21.10.4				200		
File Attachment Type Attachment Type Accession O Crop Trait Code Taxonomy Family	Order Request O Method		S	ave	Save a	nd Ex
View Existing Attachments Batch Files		View Large C	) Small (	) List (	Tile C	) Det
Attachments     Artachments     Area 35644 21ncao01 SD     Artachments     Artachments	Ames 35644 21ncao01 SD	I Thumbon Virtual P	Path	Sort Orde	r 🍝	Titl

To resolve, examine the filename. Most likely there is a typo of some sort in the name, or the GG item (such as an accession or inventory identifier in this case was completely missing). Another possibility is that you need to review the <u>name parsing</u> options.

When using the wizard's **Batch Files** method, the names of the folder/files are critical. When dragging files to the wizard and attempting to attach to a crop, the manual drag will work regardless of the path/filename. But when using the Batch Files method, the wizard looks for a match to the item selected in the CT list and if there isn't a match, the attaching will fail.

In the following example, the user is using the **Batch Files** button to select some files from a Windows folder. Unfortunately, the folder name in Windows is misspelled (3rd image). The second image with the **-1** next to the folder icon is a visual clue that this attachment is not working properly.

File Tools Help Q Search KAccession Wizard KAtt	achment Wizard	Cooperator Wizard 🕌	S Order Wizard 🏌	Viability Wizard		
Show lists from: Show All Accessio	ns Inver Attachment W	zard ors Get Inventor	y Maintenance Policy	Get Accession Source	Get Crop Get Code	Value I
	Crop ID Crop	Note	Created Date	Created By	Modified Date	Mo
	418 BUCKW	HEAT Contains	1/27/2017 11:	17 Leon, Blanca, U	1/5/2021 7:27 AM	M SYS
Session 5 ATTCH A Line ATTCH A Line ATTCH Root Folder						
Attachment Wizard v1.21.10.4					- 0	×
File						
Attachment Type Accession Inventory Accessio	on/Inventory Group (	Order Request	O Method	Sav	e Save and Ex	cit
		nomy Genus 🔿 Taxor	nomy Species			
View Existing Attachments Batch Files			Vie			ia
Attachments			۲	Large () Small ()	List () Tile () Deta	ails
google world cup png	Å	-		• ها	•	0
→ • ↑ 📜 > This PC > Windows (C:) >	aGG_EXAMPLES > 1	MAR 15 RRG > BU	ICKWHEET			
images_for_attaching_xrcises_misc			$\checkmark$			
Kevins stuff	0					
MAR 15 RRG				_		
BUCKWHEET	PDF		Ğ	egle	ALC: N	
📙 martysfavs_sampledata	doc xmple	pdf ears	.ipg ggi	ogle world	hum leaf.jpg	
📜 reports		, Curb		up.png		

## Error Example: Filename Not Matching the Designated Delimiter

In the following example, the name next to the paperclip icon looks like it would match a valid accession identifier: MAR 24 RRG. However, when reviewing the parsing option, the wizard has been configured to work with the underscore character (2nd image below).

O Accession/Inventory	Group Order Requ	iest (
rop Trait Code 🛛 Taxonomy Fa	mily O Taxonomy Genus	
-1		
- □ >	<	
	1	
ppr, pprx, por, axr, arr, arp, pog		
Ignore Folder Names		
ra > Marty's lesting > Mart	y's lesting > DelimitedExa	mpies
Date	Туре	Size
	rop Trait Code () Taxonomy Fa	nop Trait Code () Taxonomy Family () Taxonomy Genus

When the filename was edited and the spaces were replaced with underscore characters, the attaching worked properly:

🖳 Attachment Wizard v1.21	.10.4			
File				
Attachment Type O Accession	nventory O	Accession/Inventory Group	Order Reque	st O Method
◯ Crop ◯ Crop Trait	◯ Crop Trait Code	O Taxonomy Family	<ul> <li>Taxonomy Genus</li> </ul>	O Taxonomy Species
View Existing Attachments	Batch File	es		
Attachments	2125451 <mark>/MAR_24_RR</mark>	G jpg	*	

12/7/2010 2.12 AM

Tags

MAR 24 RRG.jpg

## **Known Bugs**

#### *Not Displaying the Attachments*

Sometimes after images have been attached, as a user you may click on another **Attachment Type** radio button. That action frequently impacts the display of the attachments; you may need to close the wizard and then reopen.

#### Accession-inventory-group file path

A minor bug was discovered in May 2025 and will be corrected in the next CT build. The bug is rare and most likely will not impact most organizations using GRIN-Global.

The attachment wizard logic currently treats an accession-inventory-group as an accession and attempts to convert it to an inventory. Because of this incorrect behavior, the wizard will not resolve the file path properly and instead uses the default file path.

This is a rare scenario because two things must be true: 1) the user is adding accession_inv_group_attachments and 2) the organization is modifying the default file path for uploading attachment files.

## Folder and File Naming Conventions – Important!

The file name *or the folder name* of the folder containing the files to be attached is critically important, especially when using the Batch Method to attach files with GG records.

The wizard uses programmed logic in the process of uploading images or attachments. The wizard evaluates the Windows folder name and / or the actual file names to determine which GG items to attach.

Shown below, the default radio button Inventory is selected:

🛃 Attachment Wizard v1.21.10	.4			
File Attachment Type Accession	ntory O	Accession/Inventory Group	O Order Reque	est () Method
	Crop Trait Code		Taxonomy Genus	Taxonomy Species
View Existing Attachments	Batch Files			
Attachments				

When associating images with inventory records, the wizard evaluates the filename and searches for a matching inventory identifier.

Inventory identifiers consist of 4 components - Inventory:

- -prefix
- -number
- -suffix
- -form type

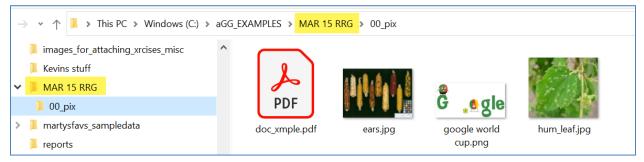
Accession identifiers use 3 components - Accession:

- -prefix
- -number
- -suffix

## **Folder Paths Can Impact the Attaching**

When either the **Accession** or **Inventory** radio buttons are selected, the CT and the wizard are looking for matches by filenames, but when a match isn't found, the CT software reviews the Windows name of the *folder* where the image files have been stored. The software not only looks at the Windows folder with the files, but when attempting to match files/folders with GG items, the software will look "up the path" – if the software can't find a name in an image file's parent folder, it will look at the folder's parent folder, etc.

In this example, files are in the 00_pix folder, but its parent folder is **MAR 15 RRG** which matches an Accession identifier in the database.



## **Filename Components**

A file name can contain important information interpreted by the wizard. File naming components can be used to fill certain fields in the GG attachment record. For example, you can indicate by the image's filename that it is a flower.



The wizard has three parsing options available that guide the wizard when it attempts to match file names with corresponding GG names. The default option is *Smart* parsing. This basically means that the wizard will look for either underscore or space characters to separate the filename components. If your Windows file names use characters other than underscores or spaces, review the *Parsing File Names* section.

We mentioned previously that the CT uses the folder or file name to match to an inventory record. File naming options can also include a plant part, an order number, and a date (such as the date the photo was taken). For example, the following name is indicating the inventory PI 500000 tr05az SD, January 1, 2005, sort order is 1, and flower. \pi 500000 tr05az SD 01-01-2005 01 flower.jpg

When associating with Accession or Inventory records, you must include the *inventory or accession identifier (in the filename or pathname)*; all of the other filename components are optional.

Component	Format	Example
inventory identifier* <i>(&amp; underscore)</i>	<pre>inventory_number_part1 + "_" + inventory_number_part2 + "_" + inventory_number_part3 + "_" + form-type-code +</pre>	pi_500000_tr05az_sd_
accession identifier* (& underscore)	accession_number_part1 + "_" + accession _number_part2 + "_" + accession _number_part3 + "_"	PI_500000_

date (& underscore) (optional)	mm-dd-yyyy + "_" (more info: <u>Attach Date)</u>	<mark>01-01-2005_</mark>
sort_order (& underscore) (** optional)	nn + "_" (more info: <u>Sort Order)</u>	01_
plant_part (optional)	(more info: <u><i>Plant Part</i></u> ); not exclusively plant parts)	flower

* When attaching to Accession or Inventory items, if the identifier is not part of the filename, then the identifier must be the folder name.

** Unique image order numbers make it possible to have multiple images for the same inventory, plant part, and date.

When using the <u>Batch Files method</u>, if your folders are setup in a fashion similar to the following, with each folder named after an accession, you can use the IMAGES folder to attach all the attachment files from the folders to their respective accessions.

	► IMAGES		✓ C Search I	MAGES
DATA	^ Name	~	Date modified	Туре
D 📜 HP	📜 МА	D 1	9/5/2018 4:12 PM	File folder
A 📙 IMAGES		58601	9/5/2018 4:20 PM	File folder
👢 MAR_1		58665	9/5/2018 4:24 PM	File folder
👢 PI_558601	↓ PI 5		9/5/2018 4:25 PM	File folder
👢 PI_558665		58693	9/5/2018 4:22 PM	File folder
👢 PI_558681	( <b>№</b> PI_5	26092	9/3/2018 4:22 PM	rile loider
👢 PI_558693				

Another example where each folder name matches an accession identifier:

Panes	Layout	Current view	Show
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\blacksquare$ $\Rightarrow$ This PC $\Rightarrow$ Windows (C:) $\Rightarrow$	aGG_EXAMPLES > files_to _attach	>	
🧎 files_to _attach	∧ Name	Date m	odified
📕 PI 698720	PI 698720	11/22/	2021 6:25 PM
📙 PI 698721	PI 698721	11/22/	2021 6:26 PM
📙 PI 698722	📙 PI 698722	11/22/	2021 6:27 PM

In each folder, files are stored. For example, the *folder* PI 698720 contain five files:

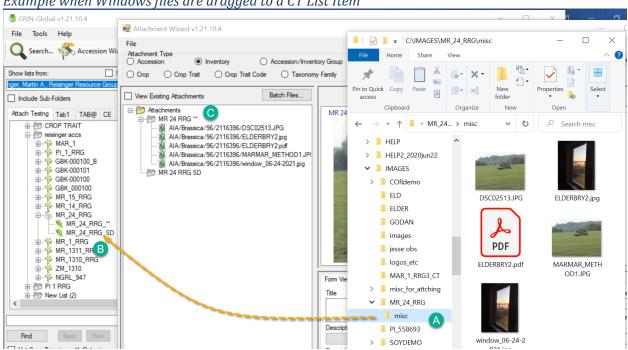




The **Inventory Type c**ode for all system inventory records in GRIN-Global is **. Since Windows does not allow asterisks (*) to be used as a Windows filename character, specify the accession identifier (use only accession -prefix, -number, and -suffix).

In this case, the wizard attaches the files to the system inventory record, therefore associating the files with the accession, not a specific inventory record.

In the wizard, you can also use an inventory identifier (the four components: prefix, number, suffix, and Inventory Type), and use the Accession radio button.



## Example when Windows files are dragged to a CT List Item

In the above example, the user clicked on the Windows Explorer **misc** folder. Notice that **misc**'s parent folder is MR_24_RRG.

The user clicked and then dragged **misc** to the CT and dropped on the **MR 24 RRG SD** item which points to an inventory record. Since neither misc nor its parent folder MR_24_RRG matched the MR_24_RRG_SD item, but matched the accession, the image files were attached to the accession's system inventory record, MR 24 RRG **



- All attached files (for all inventory_ids) for the same accession_id are stored in the same folder
- The wizard looks for an inventory identifier (Prefix, Number, Suffix, Inventory Type) . within the filename; when not found, the wizard will review the folder name

(pathname). It will look "up the path"– if it can't find a name in the parent folder, it will look at the parent's parent folder, etc.

When the attaching of the source files is successful, the wizard names the server destination location during the attachment process with a virtual pathname. In this example, the accession_inventory_attachment dataview is displaying the paths:

Accessions Inventory Orders Cooperators Get Accession Inventory Attach 🚒						
	Accession Inventory Attach ID	Accession	Inventory	Image Virtual Path	Thumbnail Virtual Path	Sort Order
►	541459	MR 1 RRG	MR 1 RRG **	AIA/Vitis/72/1958772/mr_1_rg_flower01.jpg	AIA/Vitis/72/1958772/mr_1_rg_flower01_thumbnail.jpg	
	541461	MR 1 RRG	MR 1 RRG **	AIA/Vitis/72/1958772/mr_1_rrg_fruit.pdf	AIA/Vitis/72/1958772/mr_1_rrg_fruit_thumbnail.pdf	
	541460	MR 1 RRG	MR 1 RRG **	AIA/Vitis/72/1958772/mr_1_rrg_flower02.jpg	AIA/Vitis/72/1958772/mr_1_rrg_flower02_thumbnail.jpg	
	541462	MR 1 RRG	MR 1 RRG **	AIA/Vitis/72/1958772/mr_1_rrg_fruit_01.jpg	AIA/Vitis/72/1958772/mr_1_mg_fruit_01_thumbnail.jpg	

The text "**AIA**" is used at one level to indicate an Accession Inventory Attachment. The wizard determines the genus of the accession and uses genus for the next level of the pathname. In the following example, the 96 is a random number generated by the software to subdivide folders, ensuring that only a limited number of files are stored in any one folder.

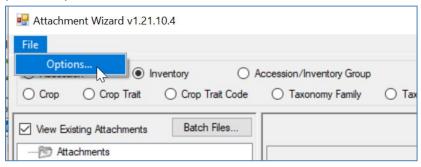




"AIA" is the folder name only used with files stored as accession and inventory attachments. In this attachment wizard, the biggest change was the ability to attach to other attachment tables. These all use different folder names. For details, see <u>Appendix B: Attachment Locations</u>.

## What Types of Files Can be Attached?

The wizard window has a menu with one item, **File**, which in turn has one item, **Options...**. The primary reason for selecting **File | Options...** is to indicate which file extensions the wizard can handle ("Include").



## **File Include and Exclude Filters**

#### Include

The list of possible file extensions has been seeded with many file types that are most likely to be added as attachments.

Options		_		×
Attachment File Filten Include: (e.g. *.jpg	; *.png; *.gif; *.xlsx; *.docx; *.pptx; *.;	pdf; *.txt; *.rtf; *.zi	ip)	
*.jpg; *.png; *.gif; *.xl	s; *.xlsx; *.doc; *.docx; *.ppt; *.pptx;	*.pdf; *.txt; *.rtf; *	.zip; *.jpeg	
Exclude: (e.g. *.tif;	*.tiff; *_t.jpg)			
".tif; "_t.jpg; ".exe; ".o				
File Name Automation	Case Sensitive Ignore	Folder Names		
Delimited Parsing	Token Delimiters			
	7: 0 9: 0			
		ОК	Can	cel

However, if you need to specify additional file types, add the file extension to the list by supplying the semicolon separator (;), an asterisk (*), period (.), and the extension. For example, if you needed to add .JPEG, you would consider the following:

```
*.jpg; *.png; *.gif; *.xls; *.xlsx; *.doc; *.docx; *.ppt; *.pptx; *.pdf; *.txt; *.rtf; *.zip; *.JPEG
```

where the red text indicates the new file extension to be included.



The above *.JPEG is used as an example. However, the .JPEG extension has been added to this list since version v1.22.8.24.

#### Exclude

This list has a few obvious file types that need to be excluded. As with the **Include** option, if you need to specify additional file extensions to the existing list, do so in the same manner as described above.

## **Frequently Asked Questions**

## FAQ 01 How do you attach multiple images to more than one accession?

What is the easiest method to have the same image of .PDF file be attached to multiple GG records?

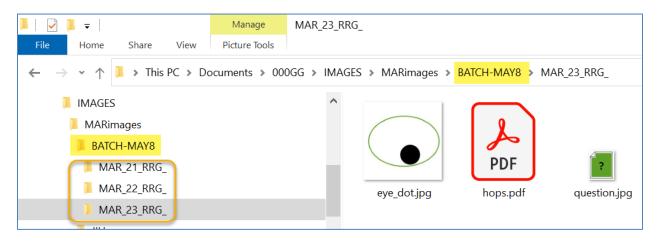
One way would be to simply repeat the action of dragging and dropping the same image(s) from Windows Explorer to either CT items, dropping on each CT item (repeatedly), or drag them, one folder at a time, to an item listed in the wizard. However, there is a method (requiring some setup work in Windows Explorer), to configure the folders and attachment files a certain way, before using the attachment wizard. Described below:

In Windows Explorer...

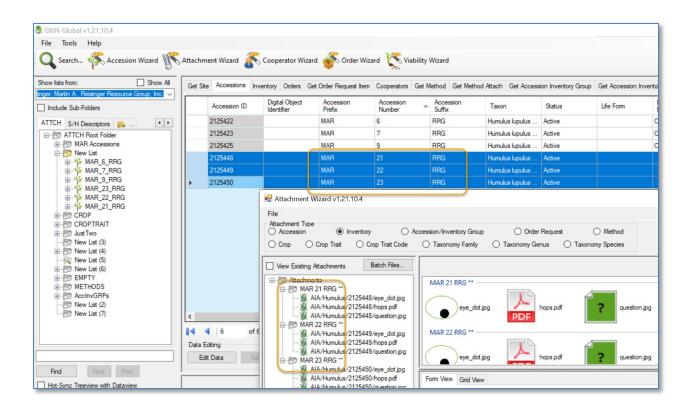
- create the folders (see <u>Appendix A: Making a Batch of Folders</u> for a quick method when you need to create many folders)
- name the folders to match the identifiers (use a trailing underscore (_))
- group the folders under one folder such as "BATCH-MAY8"
- copy the same file(s) into each folder (use CTRL + C to copy the source file(s); paste the file(s) at each target folder, using (CTRL + V)

In the Curator Tool...

- select the records in the datagrid that will get the attachments
- use the wizard's Batch Files method to select the folder "BATCH-MAY8"

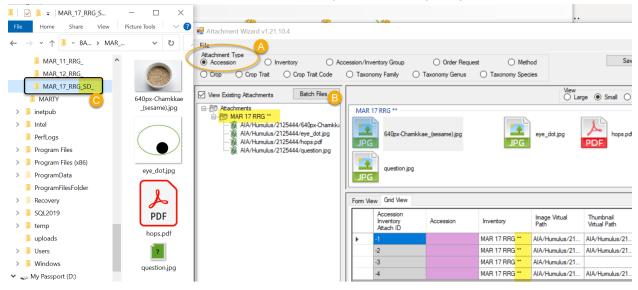


🌯 GRIN-Global v1.21.10.4										
File Tools Help										
Q Search 🖗 Accession \	Wizard 🌾 Attachm	ent Wizard 🧯	Coop	erator W	zard   Tita Wiza	rd 🌾 Via	ability	Wizard		
		Accessions	Inventory	Orders	Get Order Request Item	Cooperators	Get N	Nethod	Get Method	d Attach
inger, Martin A., Reisinger Resource Gr		Accession ID	Digit: Ident	al Object ifier	Accession Prefix	Accession Number		Access Suffix	sion	Taxo
ATTCH S/H Descriptors 🚒	• •	2125422			MAR	6		RRG		Humu
- MATTCH Root Folder		2125423			MAR	7		RRG		Humu
HAR Accessions		2125425			MAR	9		RRG		Humu
i⊟ 100 New List i⊞100 MAR 6 RRG		2125448			MAR	21		RRG		Humu
HAR_7_RRG		2125449			MAR	22		RRG		Humu
H MAR_9_RRG		2125450			MAR	23		RRG		Humu
Hereit MAR_23_RRG Hereit MAR_22_RRG Hereit MAR_21_RRG Hereit MAR_21_RRG Hereit CROP						5				



## FAQ 02: Why is there an Accession button when there isn't an Accession attachment table?

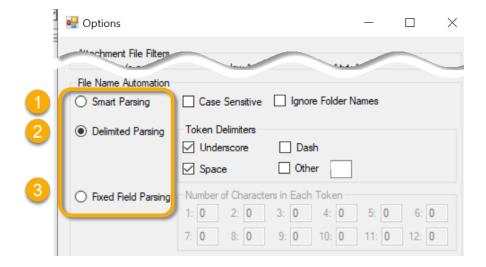
This button is used when you want to ensure the images are connected with the system inventory records, that is, inventory records whose **Inventory Type** code is **. This association denotes that the attachments are associated with the accession, not a specific inventory sample.



## **Parsing File Names**

As background information, parsing means to split text or other input into pieces of data that can be easily stored or manipulated. Each of the text pieces that is parsed is considered a "token."

Fortunately, you usually do not need to worry about how the wizard uses the parsing options because the default is the Smart Parsing option. (The wizard has three different parsing options. The software is programmed to recognize certain conventions explained in the *File Naming Conventions* section.



### **Smart Parsing**

By default, unless you select Delimited or Fixed Field parsing, the wizard will parse a file name using the underscore or space characters.

so that filename such as MAR_24_RRG fruit 04-24-1979.jpg will be treated by the wizard as corresponding to the accession MAR 24 RRG, the image is a fruit image, and the date the photo was taken was April 24, 1979.

#### **Delimited Parsing**

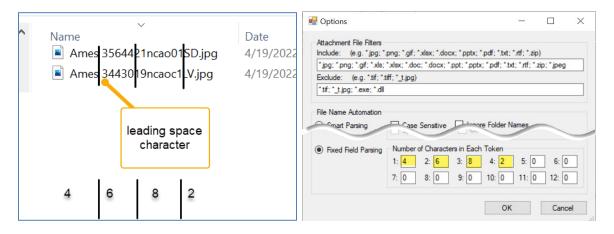
Specify characters to indicate the separate components.

## **Fixed Field Parsing**

With Fixed Field Parsing, you can indicate how many characters are to be used for each part of the inventory identifier. There are four component parts to the inventory identifier: prefix, number, suffix, and type.) To be able to use this option, two things are necessary:

- The inventory identifier is in a consistent position within the filename
- Each component of the inventory identifier uses the same number of characters

An example is best used to illustrate this parsing option. In this example, the accession_inventory identifier begins in the beginning of the filename. The first 4 positions are used for the prefix, then 6 characters for the number, 8 characters for the suffix, and 2 for the inventory type code.



When file names are generated by a system that does not start the file name with the inventory/accession prefix, but then is consistent, you could use the first token box to indicate the number of leading characters, that is, specifically how many characters should be ignored before the prefix token is read.

## **Two Other Parsing Options**

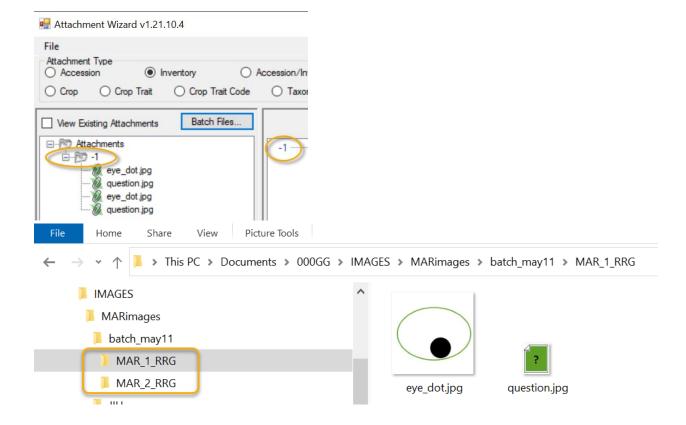
Under File Name Automation, you can indicate when the wizard should use (or ignore) characters used in the filename. You can also ignore the folder names when matching up the attachment files with the GG records.

🛃 Options			_		$\times$
Attachment File Filter Include: (e.g. *.jpg	s ;;*.png; *.gif; *.xlsx; *.doc	x; *.pptx; *.pdf; *.tx	t; *.rtf; *.zip	o)	
*.jpg; *.png; *.gif; *.x	ls; *.xlsx; *.doc; *.docx; *.	.ppt; *.pptx; *.pdf; *	.txt; *.rtf; *.	zip; *.jpeg	
Exclude: (e.g. *.tif;	.*.tiff; *_t.jpg)				
*.tif; *_t.jpg; *.exe; *.	dll				
File Name Automatio	n				
O Smart Parsing	Case Sensitive	Ignore Folder	Names		
O Delimited Pamine	- Token Delimiters				

Example: When the **Ignore Folder Names** checkbox was selected, the following attach process failed because the folder names (MAR_1_RRG and MAR_2_RRG) were not recognized during the Batch Files

process:

Options					×
Attachment File Filters Include: (e.g. *.jpg;	.png; *.gif; *.xlsx; *.do	cx; *.pptx; *.pdf; *.	txt; *.rtf; *.zij	p)	
*.jpg; *.png; *.gif; *.xls;	*.xlsx; *.doc; *.docx; *	.ppt; *.pptx; *.pdf;	".txt; ".rtf; "	.zip; *.jpeg	
Exclude: (e.g. *.tif; *	.tiff; *_t.jpg)				
*.tif; *_t.jpg; *.exe; *.dll					
File Name Automation O Smart Parsing	Case Sensitive	Ignore Folde	er Names	)	
Delimited Parsing	Token Delimiters Underscore Space	Dash			



## **Alternative Methods for Attaching Images**

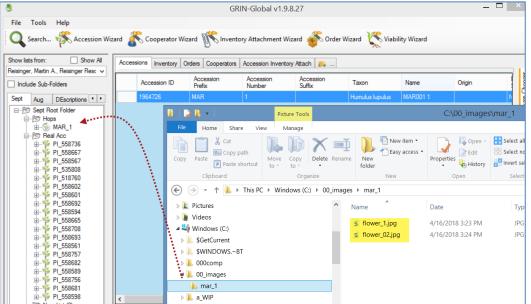
There are several techniques for using the wizard. Perhaps the simplest is to drag files from a Windows Explorer screen directly to an item in the CT List Panel.

## Attaching Files Directly to a List Item

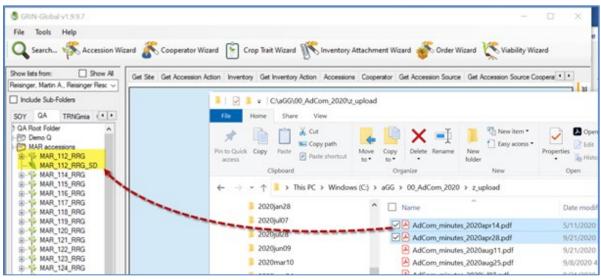
Note

An alternative to launching the Attachment Wizard is to drag image files directly from a Windows Explorer window to an *item* (not a folder) in the CT's left list panel.

The images are attached and this action immediately launches the Attachment Wizard:



Since you can only select one item at a time in the CT left list panel, this technique is limited. Multiple files can be attached, but to only one GG record. In the following example, two PDF files are being dragged from a Windows screen. If the user drags them to the item MAR 112 RRG, the attachments will be associated with the system inventory record. When dragged to the MAR 112 RRG SD item, they are associated with the corresponding inventory record.



## **Batch Method to Select Attachments**

In the following series of screens, by using the wizard's **Batch Files button**, the user has attached images from a folder that was named with the accession identifier: **MR 19921 RRG**. To work properly, using **Batch Files**, you must have either the folder or the image files named in such as way (as explained in the <u>File Naming Components</u> section) so that the wizard can associate them to the respective accession/inventory.

- 1. in the data grid, have the desired dataview open (Inventory, Crop, Crop Trait, etc.)
- 2. click the Attachment Wizard button

## The wizard is initiated

🌲 GRIN-Global v1.21.10.4								
File Tools Help								
Q Search 🛠 Accession Wizard 🌾	Attachm	nent Wizard 🕈	Cooperato	r Wizard	Order Wiz	ard 🌾 V	iability Wizard	
Show lists from: Show All eisinger, Martin A., Reisinger Resource Group, Inc.	Acce	essions Inventory	Orders Cod	operators Get	Method Get	Method Attac	h Get Accession	Inventory Group G
Include Sub-Folders		Inventory ID	Inventory Prefix	Inventory Number	Inventory Suffix	Inventory Type	Accession	Inventory Maintenance Policy
Session 5 ATTCH A • •	Þ	5568033	MAR	6	RRG	**	MAR 6 RRG	SYSTEM
		5568034	MAR	7	RRG	**	MAR 7 RRG	SYSTEM
🛱 📂 New List		5568036	MAR	9	RRG		MAR 9 RRG	SYSTEM
MAR_6_RRG								

The wizard window displays; click Batch Files:

🖳 Attachment Wizard v1.21.10.4	-
· · · ·	Inventory Group Order Request O Method Save
View Existing Attachments	View

Optional: select the View Existing Attachments checkbox

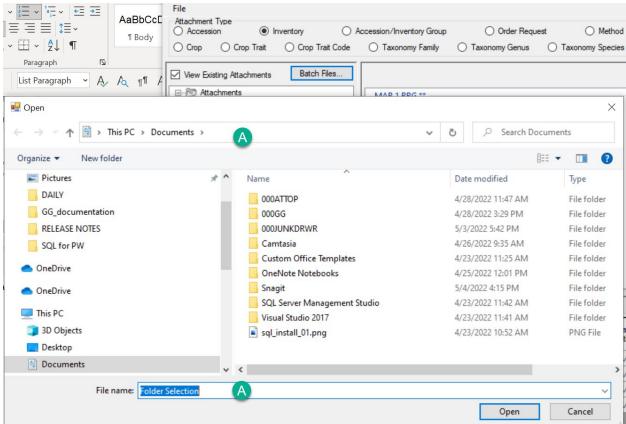


At this point, an alternative method is to switch to a File Explorer screen and begin a <u>drag and</u> <u>drop</u> operation.

3. *Browse* to the folder where the attachments are stored (PC or network drives available to the PC) and select the folder; click OK



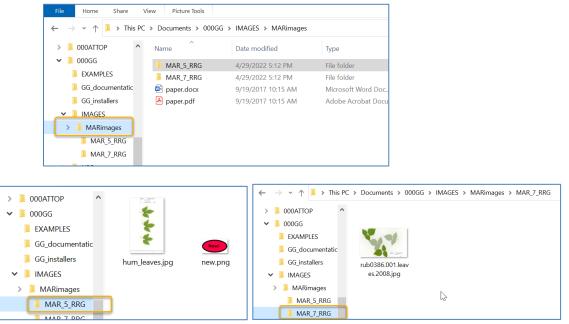
drop and paste a valid Windows path:



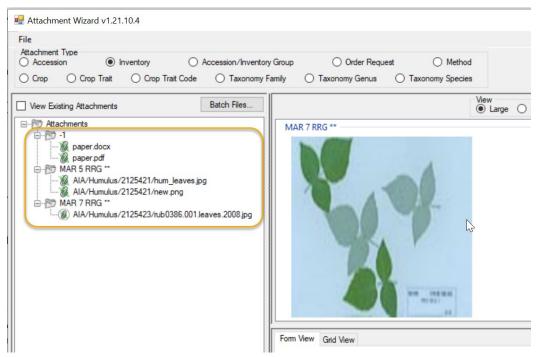
🛃 Open			×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\bigstar$ This PC $\Rightarrow$ Docur	nents	✓ O Search Docume	ents
Organize 🔻 New folder			
Pictures	* Name	Date modified	Туре
DAILY	000ATTOP	4/28/2022 11:47 AM	File folder
GG documentation	000GG	4/28/2022 C.	File folder
3D Objects	sql_install_01.png	4/23/2022 10:52 AM	PNG File
Desktop	sq_instal_01.prg	4/23/2022 10:32 AIVI	PNO FILE
Documents	v <		
		- 0	
File name: C:\Users\	\Marty.Reisinger\Documents\000GG\IMAGES\MARimag	jes B	~
		Open	Cancel

In this example, (A) the attachment wizard displayed this path originally, but the user pasted in the path (B). (You can use either (A) position to paste into.) Click the **Open** button to switch to the pasted path.

4. Begin the attachment selection. In the following example, MARimages was selected. (The three images below illustrate what files were in the selected Windows folder(s).)

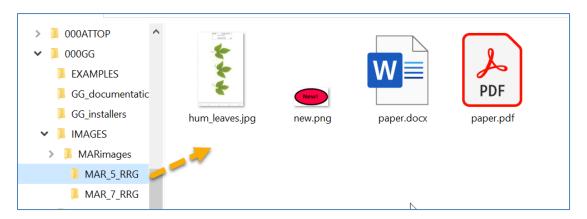


The files being attached are listed in the left panel of the wizard. Thumbnail images are displayed in the upper right panel:



In this example, two of the Windows folders matched GG Accession identifiers – the MAR 5 RRG and the MAR 7 RRG. However, the Windows folder that had been selected was called **MARimages**. That folder had 2 files – paper.docx and paper.pdf. None of these names – the folder or the filenames – match anything in GGG, so the wizard is not able to match and displays a -1 referring to the non-match to MARimages.

When you see a **-1**, you should not proceed – typically cancel, and then review your naming conventions. If the goal was to include the paper.docx and paper.pdf files with MAR 5 RRG and MAR 7 RRG, copy the files into the corresponding Windows folders:



File					
Attachment Type O Accession  Inventory	Accession/Inventory Group	O Order Request	O Method		
◯ Crop ◯ Crop Trait ◯ Crop Trait	Code O Taxonomy Family (	C Taxonomy Genus C T	Taxonomy Species		
View Existing Attachments	Batch Files			View Large	◯ Sm
Attachments     MAR 5 RRG **     Attachments     Attachme	ng docx odf docx odf			N	e

When using the Batch File method, the wizard uses the Windows folder or file names to associate the images to the corresponding GG items.

## **Drag and Drop Method to Select Attachments**

This is the alternative method to using the <u>Batch Files method</u>. The two methods produce similar results. However, when you use the Batch Files method, all the folder's files are included, whereas when dragging and dropping, you can select which files to do so.

## Example Using the Drag and Drop Method to Select Attachment Files

In the following series of screens, by using the **drag and drop method** with the wizard, the user has attached images from a folder that was named with the accession identifier: **MR 19921 RRG**.

- 1. start with a list of accessions (or other GG items)
- 2. select the accession rows in the right-panel (datagrid)

## Wizard is Initiated

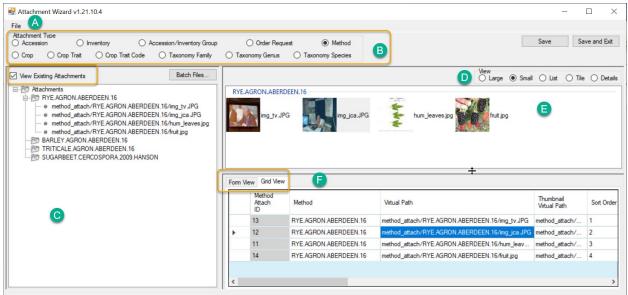
- 3. Click the Wizard button.
- 4. Switch to a Window's File Explorer window; click on a folder, or alternatively, select files in a folder using standard Windows keyboard and mouse combinations, and then drag onto the wizard's folder icon in top, left panel of the wizard window:

2		Inventory Attachment Wizard		_ □	×
File					
				Save Save and	Exit
View Existing A	Attachments Browse				
T					
	File Home Share View				and the second second
	🔄 🔄 👻 🕇 👗 🕨 This PC 🕨 Window	vs (C:) ♦ aGG ♦ images ♦ images for attaching	▶ mr_19921_rrg		
	Icons_2016jun27	^ Name	Date	Type	Size
		Name	Date	Туре	Size
	Images for attaching	Name S 01_ear.jpg	Date 8/12/2005 1:44 PM	Type JPG File	
	Images for attaching			**	522
	Images for attaching	S 01_ear.jpg	8/12/2005 1:44 PM	JPG File	522   544
	Images for attaching	S 01_ear.jpg S 02_ear.jpg S 03_ear.jpg	8/12/2005 1:44 PM 8/12/2005 1:36 PM	JPG File JPG File	522   544   764
	images for attaching     Bears     Mumulus     Maize	<pre>\$ 01_ear.jpg \$ 02_ear.jpg \$ 03_ear.jpg \$ 04_ear.jpg \$ 04_ear.jpg</pre>	8/12/2005 1:44 PM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM	JPG File JPG File JPG File JPG File	522   544   764   581
	Images for attaching	\$ 01_earjpg         \$ 02_earjpg         \$ 03_earjpg         \$ 04_earjpg         \$ 05_earjpg	8/12/2005 1:44 PM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM 8/12/2005 1:36 PM	JPG File JPG File JPG File JPG File JPG File	522   544   764   581   544
	▲ images for attaching     ↓ Bears     ↓ Humulus     ↓ Maize     ↓ mr_19921_rrg	\$ 01_earjpg         \$ 02_earjpg         \$ 03_earjpg         \$ 04_earjpg         \$ 05_earjpg         \$ 06_earjpg	8/12/2005 1:44 PM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM 8/12/2005 1:36 PM 8/12/2005 7:36 AM	JPG File JPG File JPG File JPG File JPG File JPG File	522   544   764   581   544   764
	<ul> <li>images for attaching</li> <li>Bears</li> <li>Humulus</li> <li>Maize</li> <li>mr_19921_rrg</li> <li>rubus_fruit</li> </ul>	\$ 01_earjpg         \$ 02_earjpg         \$ 03_earjpg         \$ 04_earjpg         \$ 05_earjpg         \$ 06_earjpg         \$ 07_earjpg	8/12/2005 1:44 PM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM	JPG File JPG File JPG File JPG File JPG File JPG File JPG File	522   544   764   581   544   764   581
	<ul> <li>images for attaching</li> <li>Bears</li> <li>Humulus</li> <li>Maize</li> <li>mr_19921_rrg</li> <li>rubus_fruit</li> <li>rubus_fruit - Copy</li> </ul>	\$ 01_earjpg         \$ 02_earjpg         \$ 03_earjpg         \$ 04_earjpg         \$ 05_earjpg         \$ 06_earjpg	8/12/2005 1:44 PM 8/12/2005 1:36 PM 8/12/2005 7:36 AM 1/30/2007 10:34 AM 8/12/2005 1:36 PM 8/12/2005 7:36 AM	JPG File JPG File JPG File JPG File JPG File JPG File	Size 522   544   764   581   544   764   581   581   581   582   138

The result: the files are listed under a subfolder. The thumbnail images will also be displayed in the upper right panel.

# **Attachment Wizard Window Details**

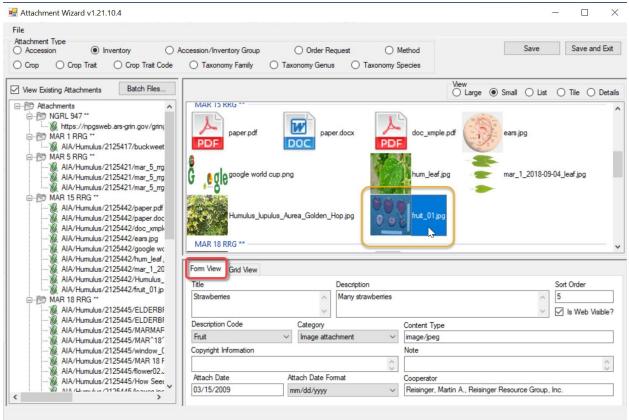
## **Grid View tab**



Item	Notes
А	Menu: "File" - use to include/exclude file types or to change the parsing options
В	Radio buttons used to indicate what is being attached
С	The left panel displays the attachments.
D	Radio buttons to control the display/size of the images while viewing in the wizard
E	Icons or thumbnail prints representing each attachment
F	Two tabs. In Form View, you can edit the Titles, Descriptions, Dates, etc. for one image/attachment at a time; the Grid View (shown here) displays all the attachments, in a table view

# Form View tab

# **Attachment Record Fields**

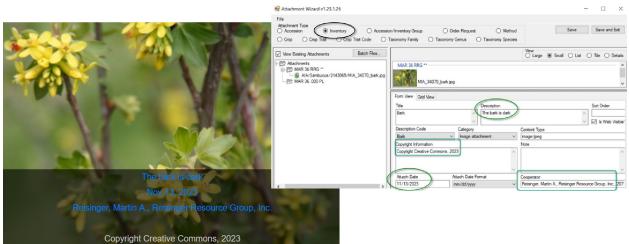


#### Title

Displays when the user rolls the mouse over the image thumbnail on the main accession details page.

#### Description

Data supplied in the **Description** field displays when the image is viewed in a browser window.



# Sort Order

The Sort Order field is used by the PW for displaying images in a relative order. On the public website, the search results page will display the image with the lowest number on the results page. When the accession's detail page is viewed, the image order is controlled from left to right by the sort order field.



Attachments such as PDFs and other document types (non-images) are listed on the **Other** tab of the Accession Details.

etails for:	MAR 15 RR	G, Humulus	<i>lupulus</i> L	var. <i>lupul</i> i	us, MA	R 15 RRG	
Summary	Passport	Taxonomy	Other	Pedigree	IPR	Observation	
Annotatio	ons					Patho	gens
Other Links						Vouch	iers
Document My PDF							
IVIY PDF							

## Is Web Visible?

This flag field determines if the image is displayed on the Public Website (or not).



In the current public website, when more than 500 accessions are returned from a search, the image column is not displayed on the search results page, regardless of the Is Web Visible flag.

#### Attach Date (& Attach Date Format)

If no date data is provided, the date displayed will default to the date attached. (In the current GG, digital photo image <u>Exif</u> data is not used, but plans are to explore this capability in future releases.) When a complete date is unknown, the **Date Format** field provides alternatives such as NEAR...

Display Image - Mozilla Firefox					
<u>F</u> ile <u>E</u> dit <u>V</u> iew Hi <u>s</u> tory	<u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp			
(i) ▲ https://npgsdev.ars-grin.gov/gringlobal/imagedisplay.aspx?lnk=553834, Single H. Flowe •••					
Image for: MR 1 RRG - Mature flower & leaves Taken by: <u>Reisinger, Martin A., Reisinger Resource Group, Inc.</u> o I NEAR 2018. Inventory sample: MR 1 RRG SD When copyright information is included, it displays here.					
Form View Grid View					
Form View Grid View		Title		Description	
Inventory MR 1 RRG SD Sort Order	b Visible?	Title Single H. Flower	~ ~	Description Mature flower & leaves	
Inventory MR 1 RRG SD Sort Order	b Visible? Attach Date F NEAR yyyy	Single H. Rower	Cooperator Reisinger, Martin A., Reisir	Mature flower &	

#### Cooperator

The cooperator information, when supplied to the Cooperator field, will display below the image when it is expanded:



#### Description Code

The code group **ATTACH_DESCRIPTION_CODE** contains the list of valid **Description c**odes. (The GG Admin maintains this code group and can modify to meet the organization's needs. A CT user on the PW with a linked PW account in the **Tools | Web Query** feature can display any code and code values using the SQL below; refer to the SQL online documentation for complete details.)



## The SQL is:

SELECT cv.code_value_id, cv.group_name as group_name, cv.value, cvl.title, cvl.description FROM code_value cv LEFT JOIN code_value_lang cvl ON cv.code_value_id = cvl.code_value_id AND cvl.sys_lang_id = 1 WHERE cv.group_name = 'attach_description_code'

#### ORDER BY group_name, cv.value

Execute SQL		Download Current Page	Download	All Rows	Retrieved 32 ro
code_value_i	d	group_name	value	title	description
4707	AT	TACH_DESCRIPTION_CODE	Achenes	Achenes	
4709	AT	TACH_DESCRIPTION_CODE	Branch	Branch	
4708	AT	TACH_DESCRIPTION_CODE	Bud	Bud	
4710	AT	TACH_DESCRIPTION_CODE	Bulb	Bulb	
4711 🚦	, AT	TACH_DESCRIPTION_CODE	Cladode	Cladode	
4740	AT	TACH DECODIDITION CODE	Collection Cite	Collection Cite	

## Category

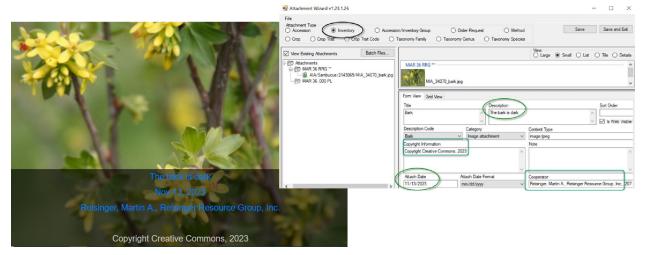
The code group **ATTACH_CATEGORY** contains the list of valid **Category** codes. (The GG Admin maintains this code group and can modify to meet the organization's needs.) If edited after initially loading images, the correct code must be properly selected. For example, Image attachment for images files.



Use the same SQL as shown above for the Description Code, but change the WHERE clause to 'WHERE cv.group_name = 'attach_category'

## Copyright Information

A text field that displays in the browser window.



#### Content Type

The **Content Type** field is determined by the attachment wizard's logic. It is using the image file's extension and is based on standards (<u>MIME</u>); this makes it possible to display the attached file.

#### Note

**Note** is a text field which does not display on the Public Website, but may be used to document the file.

# **Attach Date**

The attachment file's name or location can determine if a date is automatically inserted into the file's **Attach Date** field.

- 1. When the attachment file's filename contains a valid date properly formatted, that date will be added to the **Attach Date** field. The valid format is "mm-dd-yyyy"
- 2. When a date isn't included in the filename, the programming logic reviews the folder names in the path structure to see if any folder name includes a date. The logic looks at the current folder, and then each higher folder level until it finds a date. When that happens, that date will be inserted as the attached date. (This would allow the same date to be applied to many files in one folder.)
- 3. Finally, if neither the filename nor folder name contains a date, then the *current date* is inserted in the attachment file's **Attach Date** field.



Similar to the searching hierarchy described above for dates, the wizard also looks for the other naming components such as accession or inventory identifiers, plant part, etc.

## **Plant Part**

For the "plant_part" component of the filename, in the NPGS, the following terms are valid. These codes are stored* in the ATTACH_DESCRIPTION_CODE code group :

Achenes	Flower	Panicle	Spike
Branch	Fruit	Plant	Spine
Bud	Greenhouse	Pod	Stalk
Bulb	Head	Root	Stem
Cladode	Kernels	Seed	Stipule
Collection_Site	Leaves	Seedling	Tendril
Ear	Miscellaneous	Shoot	Umbel
Field	Nut	Silique	Vegetative

* the current list of valid ATTACH_DESCRIPTION_CODES can be obtained by running a <u>SQL</u> script mentioned earlier.

# **Locations of Attachment Files**



Appendix B has details on the naming conventions for the attachment paths. Each organization running GRIN-Global will have its own unique file server where the image and document files are stored. The GG administrator can assist with deleting the files if necessary.

The following information is intended primarily for Administrators:

The full directory path breaks down into several parts:

Example: C:\inetpub\wwwroot\gringlobal\uploads\images\AIA\Humulus

The web installer puts the GG site in C:\inetpub\wwwroot\gringlobal Then the Middle Tier (MT) controls the next part of the path. It always puts the images in the uploads\images directory under the GG site install directory. (You couldn't change that without altering the MT code and rebuilding.) Then the AIA\humulus part comes from a dataview that tells the Wizard what to use. If an admin wanted to, they could change that part by altering the inventory_attach_wizard_get_filepath dataview.

#### **NPGS Attachment File Locations**

In the NPGS, use the following convention to locate an attached file at the URL: https://npgsweb.ars-grin.gov/gringlobal/uploads/images/image virtual path

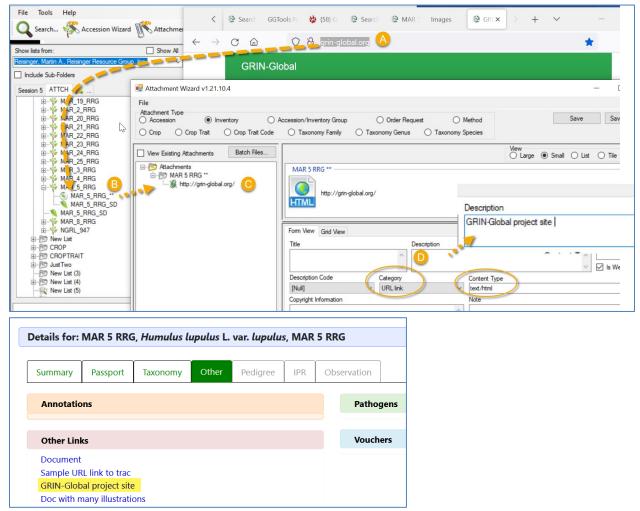
For example, using the first attachment record in the screen above: https://npgsweb.ars-grin.gov/gringlobal/uploads/images/ AIA/Humulus/1964682/sample_hum.pdf

(In this example, the number 1964682 is the accession_ID value.)

If you delete the attachment and wish to reuse the same naming convention, but with a different attached file, you can. It is not necessary to first delete the attachment record(s), simply upload the new attachment(s).

# **URL Links**

A URL can be dragged from a browser window and dropped onto an object in a CT list. (The object must have an attachment table.) After releasing the mouse over the object, the wizard will launch (C) and will create a URL link attachment. Enter a Description to describe the link on the Public Website.



# **Alternative Method for adding links**

URL links can also be added to the database and associated via attachment records. When adding many links, use the respective **Attachment** dataview (Accession_Inventory Attachment, Crop Attachment, etc.).

#### To Add a URL Link

Open the desired **Attachment** dataview; click the Edit Data button. The Crop attachment is used here as an example.

- 1. Select the CROP name from the lookup table.
- 2. Either type the complete URL text or drag the URL from the browser URL box to the **Virtual Path** field.
- 3. Enter a **Description**.

Get	Get Accession Inventory Attach Get Web Order Request Get Crop Attach Get Crop Get Crop Trait Get Inventory Viability Data Get Inventory Viability 🚒									
	Crop Attach ID	Сгор	Virtual Pa	ath Thum Virtua	bnail I Path	Sort Order	Title	Description	Content Type	Category
•	-1	-	6							[Null]
		<u> </u>		9				3		

If you need to bulk add many URLs, you can set up a spreadsheet to drag and drop the records, following the steps as with any other drag and drop process.

You can also add URL links by adding a new line in the wizard's grid. Use CTRL + N to create a new record and enter the three fields that are needed as above.

In the more recent GG public website, these links display in the Accession's **Other** tab:

Summary	Passport	Taxonomy	Other	Pedigree	IPR	Observation
Annotatio	ons		,			
Other Lin Paper PDE						
Svalbard Link						
Actions						

In the original GG public website, the link displays at the bottom of the accession's detail page:

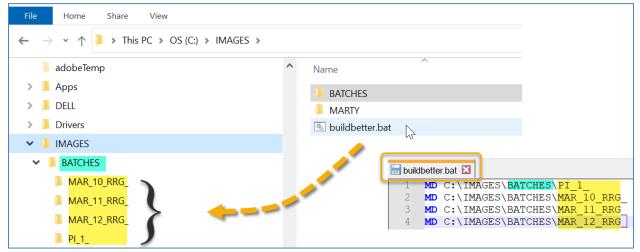


# Appendix A: Making a Batch of Folders

## **MD** – Make Directory DOS Command

One way to use the wizard is to select attachment files for many accessions, with each accession having its own folder with the images and other files in the respective folders.

In the following screen, within Windows Explorer, the file **buildbetter.bat** was double-clicked. The result was it created the 4 new highlighted folders named after accessions. Note that the names include underscore characters, including a trailing underscore:



So, what was special about buildbetter.bat?

- it is a plain, ordinary text file with the extension ".bat" (must have the .bat !)
- 4 lines of text were included in buildbetter.bat (as shown above)
- when double-clicked, the bat file executes DOS commands and, in this case, creates 4 folders. (MD is Make Directory. After MD is a space character, and then the path C:\IMAGES\BATCHES where the new folders are to be created.



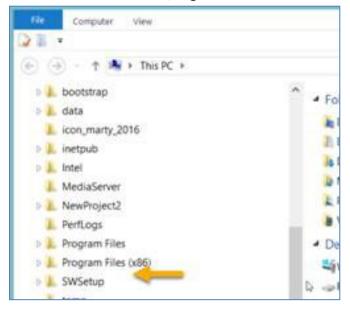
A bat fie is a text file. You can use ant text file editor such as Notepad, or even Word, to create and save the .bat file. In Word, use the Save as .txt option, and then rename the ".txt" to ".bat"



Change the Folder Options to display file extensions and other good stuff (details in pages below).

## Changing Options for Folders (so that they display (Show hidden folders))

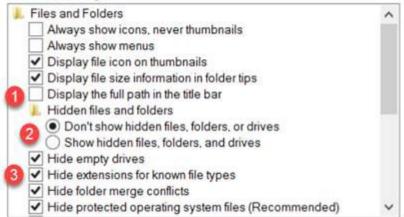
Unfortunately, Microsoft decided to hide certain folders as well as file extensions by default. The default view: the folder **C:\ProgramData** is hidden:



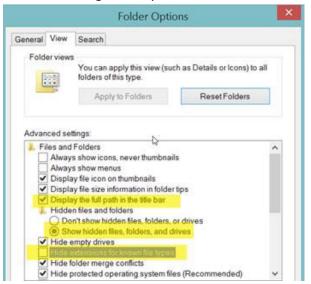
Whenever I get a new PC, I immediately change 3 of the default settings. I use File Explorer extensively, so I change the settings for "**Display full path**," "**Show hidden files...**," and "**Hide extensions for known types**" to be able to see "hidden" folders and files.

# **Default File Explorer Settings**

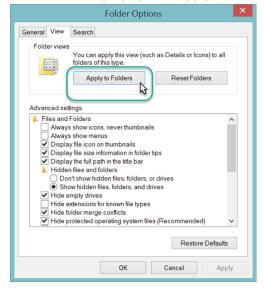
Advanced settings:



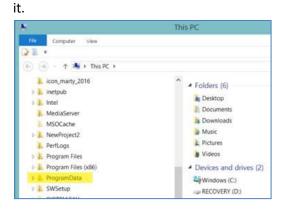
Preferred settings which you can make the default for the entire PC:



To make the display options apply to all folders, select the **Apply to Folders** button:



The C:\ProgramData should display. You may need to close the File Explorer window and then reopen



# Appendix B: Attachment Locations

Below are the default attachment paths that the new Attachment Wizard uses unless there is an override from a dataview on the Middle Tier.



Tip

Administrators: Below are the details (including the calculation the wizard makes, an example of what that calculation resolves to on the server, and the name of the dataview you will want to create if you prefer to override the hard-coded default in the Attachment Wizard).

## **Locations of Attachment Files**

Each organization running GRIN-Global will have its own unique file server where the image and document files are stored. The GG administrator can assist with deleting the files if necessary.

The following information is intended primarily for Administrators:

The full directory path breaks down into several parts: Example: C:\inetpub\wwwroot\gringlobal\uploads\images\AIA\Humulus

The web installer puts the GG site in C:\inetpub\wwwroot\gringlobal Then the Middle Tier (MT) controls the next part of the path. It always puts the images in the uploads\images directory under the GG site install directory. (You couldn't change that without altering the MT code and rebuilding.) Then the AIA\humulus part comes from a dataview that tells the Wizard what to use. However, if an admin wanted to, they could change that part by altering the attach_wizard_get_filepath dataview.

#### NPGS

In the NPGS, use the following convention to locate an attached file at the URL: https://npgsweb.ars-grin.gov/gringlobal/uploads/images/*image virtual path* 

For example, using the first attachment record in the screen above: https://npgsweb.ars-grin.gov/gringlobal/uploads/images/ AIA/Humulus/1964682/sample_hum.pdf

(In this example, the number 1964682 is the accession_ID value.)

If you delete the attachment and wish to reuse the same naming convention, but with a different attached file, you can. It is not necessary to first delete the attachment record(s), simply upload the new attachment(s).

Table	Attachment Default Path [server\folders]
accession_inventory_attach	<pre>* accession_inv_attach\INVENTORY_FRIENDLY_NAME\</pre>
accession_inv_group_attach	accession_inv_group_attach\GROUP_FRIENDLY_NAME\
crop_attach	crop_attach\CROP_FRIENDLY_NAME\
crop_trait_attach	crop_trait_attach\CROP_TRAIT_FRIENDLY_NAME\
crop_trait_code_attach	crop_trait_code_attach\CROP_TRAIT_CODE_FRIENDLY_NAME\
method_attach	method_attach\METHOD_FRIENDLY_NAME\
order_request_attach	order_request_attach\ORDER_NUMBER\
taxonomy_attach	taxonomy_attach\FAMILY_FRIENDLY_NAME\
taxonomy_attach	taxonomy_attach\GENUS_FRIENDLY_NAME\
taxonomy_attach	taxonomy_attach\SPECIES_FRIENDLY_NAME\

* NPGS: uses AIA in lieu of accession_inv_attach

#### **Examples**

Accession_Inventory attachment: https://npgsweb.ars-grin.gov/gringlobal/uploads/images/AIA/MAR_1_RRG.jpg

A Method attachment:

https://npgsweb.ars-grin.gov/gringlobal/uploads/images/

method_attach/RYE.AGRON.ABERDEEN.16/img_jca.JPG

# Appendix C: Document Change Notes

# – June 10, 2025

• note added regarding accession-inventory-group bug

# – November 13, 2023

- editing changes
- a few screens updated to reflect current Public Website

# – May 12, 2021

- expanded parsing options section; included examples
- expanded DOS batch file section for creating multiple folders

# – May 5, 2021

• this guide is a complete re-write of the previous Accession Inventory Attachment guide to reflect the updated Attachment Wizard released in CT v 1.21.10.4