



# **Tidying Your Studbook in 5 Steps**

#### Contact Species360 Support

For details on the topics see the <u>training materials for the ZIMS for Studbooks module</u>. This document outlines best practices for bringing your studbook up to date with current ZIMS data as well as a recommended order of prioritization. In the colored boxes use Ctrl + left click for a hyperlink to the section within the document.

If your studbook was up to date when you migrated into ZIMS, you can continue to use your studbook for analysis and recommendations. ZIMS automatically shows all the differences between animals in your studbook and the same animals recorded in Husbandry. These updates can be updated over time while you continue to use your studbook.

**Five Steps** 

Review living animals on	<ul> <li>Review these Possible Matches for living animals to determine if the</li></ul>
Suggested List with Possible	studbook animal should be linked to the Husbandry animal, rejected
Match	from the studbook, or added as a brand new studbook animal.
Review living animals on	<ul> <li>Review the Suggested Animals that are currently living with no Possible</li></ul>
Suggested List without	Match to determine if they should be added to the studbook, linked to
Possible Match	the suggested animals, or rejected.
Review Pending Updates: Transactions, sex, parents, and contraception	<ul> <li>Focus on transactions first so you know if anyone died or left the population. Then address sex, parent and contraception updates since these updates will impact analysis when exporting to PMx or making breeding/transfer recommendations.</li> </ul>
Review High/Medium Data	<ul> <li>Review data quality errors focusing on high and medium errors for living</li></ul>
Quality Errors for living	animals to improve the accuracy of your studbook for analysis and
animals	planning.
Review Remaining Suggested Animals, Pending Updates and Data Quailty Errors	• Continue to review and work through the non-living animals on the Suggested Animals, Pending Updates and Data Quality Error Lists.



## Step 1 – Review Animal on Suggested List with Possible Match

The Suggested List is a list of animals that are in ZIMS for Husbandry that are not linked to animals in the studbook. There are three types of Husbandry animals that can display in this list:

- 1. Husbandry animals that do not exist in your studbook and may need to be added to your studbook.
- 2. Husbandry animals that the system has found a match for in the studbook (possible match) and the user should review and take action on.
- 3. Husbandry animals that may be in the studbook but there is not enough information for the system to suggest a link between the Husbandry and Studbooks animal.

We suggest that you start with living animals.

- Investigate and review all animals with Possible Matches in the Suggested List and take appropriate action on those animals.
  - Sort the Suggested List by "Possible Matches" to view all the animals in the list with Possible Matches to a studbook animal.

Total: 71 (23.23.2	5) at 38 Institut	tions			Search Animal	by Identifier/GAN	Q	🗄 View Rejected Animals 🖌	View Husbandry Data Fix	Report 🔀 📿
Filter: Association = A	AZA and with/withou	ut suggested link								-
GAN	Current Locat	House Name	Current Local ID	Sex Type	Current Status	Age	Hatch Date	Possible Matches ↓	Birth Type	Taxonomy
JRP16-00018	RACINE	Ashton	M1614	Male	Alive	6Y,6M,12D	08/03/2012	1699	Captive Birth/	Podargus strig
WNW12-02068	ORLANDO		TF2564	Male	Undetermined	0Y,7M,25D at th	08/03/2012	1699	Captive Birth/	Podargus strig
KFM12-00020	COLO SPRG	Boots	12A006	Female	Undetermined	0Y,3M,7D at the	02/23/2012	1682	Captive Birth/	Podargus strig
HNT12-00049	COLO SPRG	Kirra	12A006	Female	Alive	6Y,11M,23D	02/23/2012	1682	Captive Birth/	Podargus strig
CWF12-02139	CINCINNAT	Oscar	212020	Female	Alive	7Y,10M,27D	03/19/2011	1679	Captive Birth/	Podargus strig
FJH12-01022	SALISBURY		1947	Male	Alive	8Y,9M,23D	04/23/2010		Captive Birth/	Podargus strig

- Click the GAN of the Possible Match to view the basic information, Suggested Link (what Possible Matches are called within the record) and actions.
- Investigate if the Suggested Link (Studbook animal) should be linked to the Husbandry animal. An easy way to do this is use the Compare button at the top of the record. This tool allows you to compare Studbook records to Husbandry records.
- Once linked, the Studbook animal will display the Husbandry records and Pending Updates.
  - To see additional information on the animal, select "View Animal Detail in Husbandry" button (upper right hand in the record) to navigate to the full Husbandry record. The additional information in the global view of the record may help confirm the Husbandry and Studbook animal match.
- An animal in the Suggested List may have multiple Possible Matches for the following reasons:
  - The Possible Matches (Studbook animals) are duplicates.
  - The Possible Matches (Studbook animals) have the same information entered which is causing the system to suggest them as links. ZIMS uses local ID/mnemonic pairings, transponders, and Studbook IDs to suggest links.
    - In the case that an animal has more than one suggested link, it may be helpful to use the Animal Comparison Tool (in the tools bar or at the top of the record) to compare the Studbook animals side-by-side and spot key differences or similarities.





- If after investigation the animal in the Suggested List (Husbandry animal) should be linked to the Suggested Link (Studbook animal), click the **link icon** (in green square below) to link the two records.
  - If ZIMS says the studbook ID is already linked to a GAN, contact <u>support@Species360.org</u> for assistance.
    - The warning means that the Husbandry animal is already linked to an animal in the Studbook and usually happens when a single animal has two separate records in Husbandry. In this case the two Husbandry records likely need to be merged into one record.
    - Email <u>support@Species360.org</u> with the GAN listed on the Suggested List as well as the GAN that the suggested animal is already linked to (GAN in the Suggested Link is found at the top left to the right of the Studbook ID in the basic information).

New Anima	al: GAN#	KFM12-00020 ~ F	Podargus	strigoides / Ta	wny frogmouth			View Animal Detail in Husban	dry
Status Undetermined (Lost 1 Hatch Date 02/23/2012	to follow up)	Sex Female Hatch Type Captive Birth/Hatch	Parentage Dam: 1593 Sire: 1637		Age OY,3M,7D Death Date ~	Rep Rear Har	roductive Status ring Type rd	Last Known Institution COLO SPRG / Cheyenne Mtn Zoological Park Local ID: 2AQO6 First Known Institution ORLANDO / Sea World Orlando Local ID: TF2553	
Suggested Li	nks (1 optic								
We found 1 potential m	natches in this stu	dbook. If you feel they represent the sa	ime animal you i	may link them.					
Studbook ID	Birth Date		Sex	Age	Parents	Status	Location	O Linked On	
1682	02/23/2012		Female	6Y,11M,23D	Dam: 1593 / ORLANDO Sire: 1637 / ORLANDO	Alive	COLO SPRG	#1682, 12A006/COLO SPRG, TF: 5 9	>
							None of these	e match, Import as new animal New Anim	nal
							т	his animal shouldn't be in studbook <b>Re</b> j	ect
						I know wh	no this animal should be linked to	, I will enter the studbook ID Manually L	ink

• If after investigation the animal in the Suggested List (Husbandry Animal) should not be linked to the Suggested Link (Studbook animal) or no link is found, then select one of the other available options in the green box below.

New Anima	al: GAN#	KFM12-00020 ~ 1	Podargus	strigoides / Ta	wny frogmouth				View Animal Detail in Husbandry
Status Undetermined (Lost 1 Hatch Date 02/23/2012	to follow up)	Sex Female Hatch Type Captive Birth/Hatch	Parentage Dam: 159 Sire: 1637		Age 0Y,3M,7D Death Date ~		Repr Rear Han	oductive Status ing Type d	Last Known Institution COLO SPRG / Cheyenne Mtn Zoological Park Local ID: 12A006 First Known Institution ORLANDO / Sea World Orlando Local ID: TF2553
Suggested Lin	nks (1 optic								
We found 1 potential m	natches in this stu	dbook. If you feel they represent the sa	ame animal you	may link them.					
Studbook ID	Birth Date		Sex	Age	Parents	Status		Location	🕑 Linked On
1682	02/23/2012		Female	6Y,11M,23D	Dam: 1593 / ORLANDO Sire: 1637 / ORLANDO	Alive		COLO SPRG	#1682, 12A006/COLO SPRG, TF255 %
								None of these	e match, Import as new animal New Animal
							know wh	o this animal should be linked to	o, I will enter the studbook ID Manually Link



- **New Animal:** Add this animal as a brand-new animal to the studbook. Use this button when you know the animal is not already in your studbook. This will create a draft animal in the studbook and user can accept/reject the institution record for that animal into the draft animal.
- Manually Link: Link a Studbook animal that is not listed as a Possible Match to the Suggested Animal. Use this button when you know that the Suggested Animal already exists in your studbook but did not populate as a Possible Match. This will open a dropdown menu to select the Studbook animal that should be linked to this Husbandry record (dropdown only displays animals that are not already linked to a Husbandry animal).
- If ZIMS says the studbook ID is already linked to a GAN, contact <u>support@Species360.org</u> for assistance. See above bullet for explanation.
- **Reject:** Remove the animal from the Suggested List. Use this button if the animal should not be linked to an animal in the studbook or added to the studbook.

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## Step 2 - Review Living Animals on Suggested List Without Possible Matches

After having added animals on the Suggested List with Possible Matches, focus on currently living animals on the Suggested List without Possible Matches. Prioritizing reviewing living animals will bring your current studbook population up-to-date, making it ready for analysis and recommendations as soon as possible.

- Sort the Suggested Animal List by the "current status" column and work with the animals that are listed as "alive."
  - Follow the same guidelines as Step 1 for adding, linking, or rejecting animals.

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## Step 3 - Review Pending Updates: Transactions, sex, parents and contraception

The Pending Update List is a list of animals recorded in the Studbook that have differences between the Studbook and Husbandry records. These Pending Updates can be accepted into the Studbook records or rejected.

- When a studbook first migrates, the pending updates are the differences between records in the Studbook and Husbandry records.
- After migration, the new Pending Updates on the list are a result of additions/changes in Husbandry records.
- Pending Updates populate for the following records: transactions, parents, sex, taxonomy, rearing, contraception.

We recommend that you start with living animals and Transactions first to catch all records that may need to be dispositioned or new holding institutions recorded. Then address Sex, Parent, and Contraception updates as these directly affect PMx analysis and breeding/transfer recommendations. Contraception may move up in priority if you have permanently contracepted animals in your Studbook



• Use the toggle filter buttons at the top of the pending updates list to filter by the record types (multiple types can be selected).

Filter: No Filters Applied	-
Transactions (91) Parent (147) Taxonomy (8) Sex (99) Rearing (151) Contraception (0)	
Hatch Date Current S Sire Dam Age Birth Type Taxonomy Last Mod	
1733 NKG13-08942 ST LOUIS 114057 Male 10/01/200 Alive 1731 1732 13Y,4M,14D Captive B Podargus 02/05/201	Ŧ.
2 Pending Updates 2 Parent	
1806 BPL17-02755 ORLANDO Killian TF2601 Male 03/17/2015 Alive 1699 1726 3Y,10M,29D Captive B Podargus 02/05/201	<b>#</b>
1 Pending Updates 1 Transaction	
1565 6078647 SAN ANTON Darwin 990562 Male 07/10/1997 Alive 1255 1351 21Y,7M,5D Captive B Podargus 02/05/201	Ŧ

- Select the studbook number to navigate to the animal record and view the Pending Updates.
- Once in the animal detail, boxes with Pending Updates will:
  - Open to display Pending Updates automatically (boxes with no updates will not display institutional records).
  - $\circ$   $\,$  Open with the studbook records on the left and the Husbandry records on the right.
  - Display an orange badge and pending updates will be highlighted in green on the institution side. Below, the Taxonomy box has no Pending Updates so only the Studbook record displays. The Sex box does have a Pending Update so both the Studbook (left) and the Husbandry (right) records display.

Taxonomy									
							Он	lybrid	⊕ & - ∢
Taxonomy		Taxonom	y Determination	Date				Reported B	у
Daubentonia madaga	ascarie	Undeterm	nined	Jul 07,	2019			Data Migrati	on Process
Sex									1
Studbook Data		ລ	🔁 🔂 🔻 🕨	Inst R	ecords	SANDIEGOZ			
Sex	Date		Reported By		Sex		Date		Reported By
				0	Undet	termined	Jul 0	7, 2019	SANDIEGOZ
Male	Jul 07, 20	19	Data Migration Pr	$\odot$	Male		Aug	27, 2019	SANDIEGOZ





- Click the "?" icon in the pending update to accept update, accept with edit or reject the record.
  - Once the record is accepted or rejected it will no longer display as a pending update in the studbook animal or the Pending Update List.

Sex						1
Studbook Data		C 🛛 🗛 🔸 🕨	Inst F	Records DUKE PRI	м	
Sex	Date	Reported By		Sex	Date	Reported By
Undetermined	May 07, 2016	Data Migration Pr				
				Female	May 07, 2016	DUKE PRIM
Rearing			+	Accept Update		
Rearing			+	Accept with Edit		
Contracept	ion		0	Reject Update		-

• Once Accepted the data displays in the Studbook left hand side.

Sex						
Studbook Data	£	5 😌 🕹 🕶 🕨	Inst R	ecords DUKE PRIM		
Sex	Date	Reported By		Sex	Date	Reported By
Female	May 07, 2016	Adrienne Miller	$\odot$	Female	May 07, 2016	DUKE PRIM

- Use the breadcrumb (top left-side) navigation to go back to the Pending Updates list.
- Note: sometimes the institution side of the record will show information highlighted in red.
  - $\circ$   $\;$  These are not pending updates and no action is needed.
  - Institution information highlighted in red indicates the data is a close match to what is already in the studbook but it is not an exact match. The text in red highlights discrepancies.
  - Users may choose to update their data to reflect the institution records; follow up with the institution for more information or ask them to correct their side; or ignore the discrepancy because it is inconsequential.

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# Step 4 - Review High/Medium Data Quality Errors

The Data Quality List is a list of animals in the studbook that have an error in their records that has been identified by ZIMS. There are three priority levels of errors: High, Medium and Low. ZIMS has additional data quality errors with different rules than SPARKS/PopLink, so more errors may populate after migration.

Prioritize data quality errors from highest to lowest to improve the accuracy of your studbook for analysis.

- Select Data Quality from the left-hand dashboard or from the Data Quality grid in the main dashboard. If going from the left-hand dashboard, use the toggle filter buttons at the top to filter by Data Quality priority types. The button is dark when that priority is selected. Multiple types can be selected.
- Hover over the question mark badge, to view more details on the data quality error and suggested actions.
- View a full list of the data quality codes and these hover over messages <u>here</u>.
- To correct the error, click the animal's studbook number to navigate to their record and make changes accordingly. Note that the errors are displayed in the right-hand Animal Activity box, so you do not need to remember them from the Data Quality list.
- As errors are fixed, they will be removed from the data quality list (you will need to refresh the list). Check to see if your edits cleared it up or added new errors.
- If an error is populating in the studbook and it is not a "true" error. In these situations, the data is entered correctly in the Studbook, but the data is causing ZIMS to identify an error. A common example is for species with delayed implantation or embryonic diapause. ZIMS recognizes that the Sire was deceased long before the estimated conception date, so it posts as an error when, due to the species biology, it is not. These "errors" can be dismissed from the list by selecting the "x" next to the error.
- Before you dismiss an error, you have the option to record a note using the note icon to the left of the "x". This is highly recommended because you may forget why an error was dismissed and if your Studbook travels to another Studbook Keeper, they may not understand why you dismissed the error.
- Any dismissed errors can be viewed again by checking the "Display Dismissed Errors" checkbox.

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# Step 5 – Review Remaining Suggested Animals, Pending Updates, and Data Quality Errors

As time allows review the remaining Suggested Animals, Pending Updates and Data Quality Errors that remain. These lists will continue to update after migration to ZIMS, the studbook is now in real time!

- As new animals are added to Husbandry, the Suggested List will display them for the user to accept or reject.
  - Suggested List displays new births/hatches at the top of the list by default.
- As additions and edits are made to Husbandry records, the Pending Updates List will populate with new updates to be accepted or rejected.
- As records are accepted or a manually added to the studbook, additional errors may be added to the Data Quality List.





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Revised 25 November 2020