Contents

Program License and Connecting to PICTraq ................................................................. 2
Connecting to PICTraq .................................................................................................. 3
Define Optional Events to Upload ............................................................................. 3
Defining your PICTraq Farms ..................................................................................... 4
Creating and Mapping Genetics and Cull/Death Reasons .......................................... 4
  Defining Genetics ....................................................................................................... 4
  Associating Genetic to PIC Company ........................................................................ 4
  Mapping Genetic Lines ............................................................................................... 5
  Mapping for Cull/Death Reasons ............................................................................. 5
  Cull/Death Codes and Reasons ............................................................................... 6
Setup Required Event Fields in PigCHAMP ................................................................. 7
Pre-existing Herd Verification ..................................................................................... 8
Sending Data to PICTraq .............................................................................................. 9
  Selecting Data Sync Method ..................................................................................... 9
Recording Events ....................................................................................................... 10
  Automatic Sync Method (Real-time) ......................................................................... 10
  Manual Sync Method (Batch) ................................................................................... 10
  Things to Know when Entering ............................................................................... 11
  Editing and Deleting Events .................................................................................... 12
Error and Warning Log File ......................................................................................... 13
Comparing Pig Event History between PigCHAMP and PICTraq .................................. 14
The interface between PigCHAMP and PICTraq is to simplify and eliminate the need to enter or import event data into your PICTraq account.

We designed this interface to automatically upload specific event details via an internet connection related to Arrivals, Matings, Farrowings, Complete Weanings and Removals. You can also select during setup to upload optional events such as abortions, piglet deaths, etc. into the system.

With this new functionality we carried over our strong validation to ensure the accuracy of the data and created a unique feature that enables you to compare an animal’s history directly in PigCHAMP for both databases.

By walking through a few steps below in the PigCHAMP program, you can enable the interface to the PICTraq system.

**Program License and Connecting to PICTraq**

PigCHAMP Program must be on Version 9.7.1 or higher in order to interface with PICTraq.

You can determine what Version and Build of the PigCHAMP program you are currently on by going to Help > About and Registration. Version and build show in the Top Right-hand corner of this screen.

PICTraq is a licensed feature, please request a new license to enable PICTraq. Once you have the updated license you will see PICTraq appear under the Other Features section of your Licensing Information screen as shown below.

![PigCHAMP Software License Information](image-url)
Connecting to PICTraq

You must have an internet connection available for the personal computer or network that PigCHAMP is installed on.

Prior to connecting to PICTraq you must request access to the Web Service from PICTraq Support (pictraq.support@genusplc.com).

In order to Link your PICTraq account with your PigCHAMP Data please do the following:

1. Request access from PICTraq Support (pictraq.support@genusplc.com)
2. Once access is received go to Settings > General Settings > PICTraq Interface
3. Verify the web service is: https://pictraq.genusplc.com/API/
4. Enter Username and Password provided by PICTraq, press Connect*

Note: Username and Password entered will be for the entire PigCHAMP Database. If you have multiple farms within your database, the entered credentials need to have access to all farms you want to interface with. Contact PIC for updated credentials if needed

Define Optional Events to Upload

Once you have connected with your PICTraq account you can select additional events you wish to include in the automated upload in the table below your login.

1. Place a check mark next to all the event name(s) you wish to include in your upload

By default, the program will automatically upload details related to Primary Events; Arrivals, Matings, Farrowings, Complete Weans and Removals.
Defining your PICTraq Farms

A PICTraq identity must be assigned to the farm in the PigCHAMP program for the interface to occur.

The PICTraq identity is provided by PIC.

To associate a PICTraq identity with a farm in the PigCHAMP follow the steps below:

1. Select the farm so it appears in your top left Farm Drop down bar
2. From the Menu at the top of the program select Farms>Farm Identification
3. Select the Alternate Identities tab
4. Select the PICTraq option and enter the PICTraq farm identity provided by PIC, click on (+) to save in lower box. Then click “Ok”.

Creating and Mapping Genetics and Cull/Death Reasons

Within the PICTraq program Genetics and Cull/Death reasons must be associated between the two databases.

Defining Genetics

For a pig within the PigCHAMP program to be associated with a pig in PICTraq two conditions regarding the pig’s genetics need to be met:

1. The pig needs to be assigned to a Genetic that is assigned to PIC Genetic Company
2. The Genetic needs to have a PICTraq mapping value set to 1

Instructions for each are below:

Associating Genetic to PIC Company

When the PigCHAMP program is licensed with the PICTraq Interface feature it will automatically create a Genetic Company called Pig Improvement Company (PIC)

For existing and/or new genetics simply select the PIC genetic company from the company drop down list to make the association.
Mapping Genetic Lines

To send only data related to a specific genetic line to PICTraq, in Lookup Item Management, there is an additional tab called Mappings.

For genetic lines that are to be sent to PICTraq

1. Select a specific line from your list of genetics
2. Go to the Mapping tab and select PICTraq as the External System
3. Enter a 1 in the value field and add (+)
4. Continue to map all lines that are to be included for genetic improvement.

Mapping for Cull/Death Reasons

Cull/Death Reasons within the PigCHAMP program need to be mapped to the corresponding reason within the PICTraq system.

A table below has been provided that includes the reasons and their corresponding numbers from the PICTraq system. To complete the mapping in the PigCHAMP program follow steps below:

1. Identify removal reasons that are used within your organization; ignore those that have been disabled.
2. Select your reason from Lookup item Management and then select the Mappings tab.
3. Once selected enter in the corresponding number that is associated with the closest listed reason in the table provided.
4. Continue to map all removal reasons used by your organization

Note: Any reason that has not been mapped will automatically default to 99 – Unknown when the data is sent to the PICTraq program.
<table>
<thead>
<tr>
<th>Code</th>
<th>PICTraq Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Abortion</td>
</tr>
<tr>
<td>93</td>
<td>Age/Parity</td>
</tr>
<tr>
<td>62</td>
<td>Anoestrus</td>
</tr>
<tr>
<td>16</td>
<td>Blind Anus/Vulva</td>
</tr>
<tr>
<td>95</td>
<td>Chilled</td>
</tr>
<tr>
<td>91</td>
<td>Dead</td>
</tr>
<tr>
<td>663</td>
<td>Dead or Mummified Litter</td>
</tr>
<tr>
<td>903</td>
<td>Depopulation</td>
</tr>
<tr>
<td>917</td>
<td>Died after Castration</td>
</tr>
<tr>
<td>665</td>
<td>Difficulty farrowing</td>
</tr>
<tr>
<td>552</td>
<td>Discharge</td>
</tr>
<tr>
<td>641</td>
<td>Empty, Not In Pig</td>
</tr>
<tr>
<td>999</td>
<td>Euth. Other</td>
</tr>
<tr>
<td>993</td>
<td>Euth.Legs</td>
</tr>
<tr>
<td>522</td>
<td>Greasy Pig</td>
</tr>
<tr>
<td>50</td>
<td>Health Misc</td>
</tr>
<tr>
<td>951</td>
<td>Heat Stress</td>
</tr>
<tr>
<td>38</td>
<td>Leg Injury</td>
</tr>
<tr>
<td>30</td>
<td>Legs Misc</td>
</tr>
<tr>
<td>15</td>
<td>Lethal Blind Anus</td>
</tr>
<tr>
<td>919</td>
<td>Lost in system</td>
</tr>
<tr>
<td>90</td>
<td>Low EBV</td>
</tr>
<tr>
<td>55</td>
<td>Mastitis/MMA</td>
</tr>
<tr>
<td>68</td>
<td>Milk Production</td>
</tr>
<tr>
<td>911</td>
<td>Overlay</td>
</tr>
<tr>
<td>69</td>
<td>Poor Litter Size</td>
</tr>
<tr>
<td>67</td>
<td>Poor Mother</td>
</tr>
<tr>
<td>642</td>
<td>PregNeg/Machine</td>
</tr>
<tr>
<td>502</td>
<td>Rectal prolapse</td>
</tr>
<tr>
<td>661</td>
<td>Retained Piglet</td>
</tr>
<tr>
<td>64</td>
<td>Return</td>
</tr>
<tr>
<td>662</td>
<td>Ripped Vulva</td>
</tr>
<tr>
<td>101</td>
<td>Rupture after castration</td>
</tr>
<tr>
<td>10</td>
<td>Scrotal Hernia</td>
</tr>
<tr>
<td>18</td>
<td>Shakes/Tremors</td>
</tr>
<tr>
<td>921</td>
<td>Small NonViable</td>
</tr>
<tr>
<td>17</td>
<td>Splay Legs</td>
</tr>
<tr>
<td>912</td>
<td>Starved/Thin</td>
</tr>
<tr>
<td>914</td>
<td>Sudden Deaths</td>
</tr>
<tr>
<td>491</td>
<td>Thin Condition</td>
</tr>
<tr>
<td>57</td>
<td>Ulcer</td>
</tr>
<tr>
<td>11</td>
<td>Umbilical Hernia</td>
</tr>
<tr>
<td>99</td>
<td>Unknown</td>
</tr>
<tr>
<td>631</td>
<td>Uterine prolapse</td>
</tr>
<tr>
<td>904</td>
<td>Wrong Genetics</td>
</tr>
</tbody>
</table>
Mapping AI Source Farm

For farms that receive or purchase semen from multiple Boar Studs you will need to map the stud farms in the Lookup Item Management (LIM) between PigCHAMP and PICTraq just as we have down above for Genetics and Death Reasons.

For a list of Boar Stud map codes please contact PICTraq support or your PIC representative.

Note: If you only receive semen from a single source farm you do not need to create or map your AI Stud to PICTraq.

For boar studs that are to be sent to PICTraq:

1. Go to Suppliers and Manufactures > AI Studs in LIM
2. Select a specific farm from your stud list
3. Go to the Mapping tab and select PICTraq as the External System
4. Enter the code that represents the stud in the value field and add (+)
5. Continue to map all stud farms that are to be included for genetic improvement.

Setup Required Event Fields in PigCHAMP

For the interface there are certain fields that are required to be entered. In some cases, those fields may be considered optional in PigCHAMP and must be added to your default data entry screen for farms that are to interface with PICTraq and are to be marked as required fields.

This is easily done by using the Data Item Management Tool (DIM) provided in the PigCHAMP program. For detail instructions on how to use the Data Item Management Tool please refer to help files (F1) or watch our How to YouTube Video: Data Item Management

Note: For clients with both commercial and genetic development farms we recommend you use the Category functionality available in the DIM Tool to limit these fields to only the genetic farms for data entry ease.

The following events will need the specified fields added:

1. Gilt Arrival/Gilt Retained & Boar Arrival
   a. Tattoo > Required
2. Semen Purchase
   a. Boar Identity > Required
   b. Pooled Semen > Required
   c. Source (AI Studs) > Only required if you receive semen from multiple sources
   d. Frozen Semen > Only required if you receive frozen semen
Pre-existing Herd Verification

For the two databases to link for existing herds it is important to make sure details related to active female’s arrival event and semen batches purchase events are the identical with the information in PICTraq.

For our clients with pre-existing data in both PigCHAMP and PICTraq we recommend you work with your PIC representative to validate the following information within both databases are the same.

Active Females

To simplify this process for Active Females, we encourage you to run a Breeder Herd Census in PigCHAMP with the below columns available.

1. Tattoo > Must be identical in both systems and must be recorded in the tattoo field associated with the arrival event.
2. Arrival Date
3. Visual Identity (Stig)
4. Date of Birth
5. Genetics

*Note: To update large quantities to match PICTraq there is a batch import option available; if needed please contact your PIC representative and PigCHAMP tech support to guide you through this option.*

Semen Batches

If you use “default” semen batch identities, as example all batches used are ABC123 then you will need to verify that following details are the same between the two databases.

To identify the semen batch identities that are used on the farm we recommend that you run the Mating List report for the most recent period matings occurred. Based on this list, in search and edit alter or add the information to the semen purchase event to mirror PICTraq.

1. Genetics
2. Boar Identity
3. Pooled Semen
4. Source (AI Studs) > Only required if you receive semen from multiple sources

*Note: If you use unique semen batch identities every week you do not need to alter historical semen purchases as you will record the information needed when entering the semen purchases each week.*
Sending Data to PICTraq

To determine when data is communicated to PICTraq for a farm. There are two (2) options to select from:

- **Automatically Update PICTraq**: Updates will be real-time at time of entry, all data will be validated by the PigCHAMP program and then validated by the PICTraq system when saved.

  Please note with this option PICTraq errors/warnings will be displayed at time of saving the event and can impact the speed of entry due to the PICTraq event validation. Along with the pop-up warnings any errors & warnings will also be written to an error log file with related details.

  Must have internet connection for this method while entering data into PigCHAMP program.

  Not recommended for Mobile App, OCR Import, and other import formats used

- **Manually Initiate PICTraq Updates**: This is a batch import method, PigCHAMP will keep track of the data being entered, once data entry is completed you can choose to update PICTraq by selecting to send the new events. This can be done hourly, daily, or minimum weekly basis.

  All PICTraq event validation will occur at the time of the upload any errors & warnings will be written to an error log file with related details.

  The program will also keep track of the last successful sync’s date and time to facilitate what new/altered activity is to be sent.

  Recommended for Mobile App, OCR Import, and other import formats used

*Note: You may switch between the 2 options at anytime*

**Selecting Data Sync Method**

The sync method selection is by farm and once selected the option will maintain unless changed.

1. In PigCHAMP select the PICTraq Farm; select any event in data entry
2. Locate the PIC logo at the top of the data entry screen; select the drop arrow to display the options
   a. For option to appear the farm selected must have the PIC identity associated.
3. Using your mouse select either the automatic upload or the manual upload option

You may select to change the method at anytime for a farm by repeating the above steps.

If switching from manual sync method to automatic sync method the program will prompt you for a manual update if there are events that have not been sync’d with PICTraq at the time of the method change.
Recording Events

You will enter data as you would traditionally into the PigCHAMP program by recording the events directly in the program or via Mobiles App, OCR import or other import formats, excluding PCF4 and PCDF.

The events that will be uploaded to PICTraq are Arrivals, Matings, Farrowings, Weanings, and Removals. Also, included in the upload are any additional events that you have selected during setup. Not all fields associated with an event are included only specific field information that has been requested by PIC is sent.

All data entered in PigCHAMP will be validated based on standard and user defined rules then passed to PICTraq for additional validation.

To review recent events submitted, PICTraq provides a report called Last Activity Report this can be found on their herd tab.

Automatic Sync Method (Real-time)

For those who choose to sync data in real-time, when you enter data in PigCHAMP and click “Save”, the new data will be pushed to the PICTraq system automatically.

You will at this time receive pop-up messages from PICTraq if there are errors and/or warnings these will also be written to the error/warning log file for future reference.

Important: If your internet connection is interrupted prior to or during data entry, data will be saved in PigCHAMP but not pushed to PICTraq. For those events you will need to manually record directly in to PICTraq

Manual Sync Method (Batch)

For those who choose to sync data as a batch import once all the data is recorded and if able PigCHAMP errors are addressed you my select to manually upload the data into PICTraq.

It is recommended to upload based on the frequency of data entry for the farm daily/weekly.

1. To upload; after data entry is completed select the arrow next to the PIC logo and with your mouse select to Send New Events to PICTraq.

   Displayed in the selection window will be the last date and time a sync occurred. Based on the time and date the program will upload any new events that were recorded into the PigCHAMP database after the last sync occurred.

   ![Image of data entry process]

   2. Once selected a process window will display with the number of events entered that are to be uploaded and the option to start the upload; select the Upload button

   3. After the upload is completed, the display will show the number of messages (errors/warnings) that are written to the log file.

   ![Image of upload process]

   Important: Must have internet connection to initiate upload
**Mobile Users:** For systems that have mobile app users it is recommended that you use the batch method; this assures that messages are logged and addressed. We encourage you to create a process that fits in your organization to initiate the sync and manage the log file.

**Things to Know when Entering**

There are some changes associated with information needed for events, warnings, and validations. We have outlined these changes below by event:

In the case of notifications/warnings/errors below we have included the pop-ups provided to real-time entry. These pop-ups will not occur for batch method upload. Please note only warnings and errors will be written to the log file.

**Arrival Events:** When a new gilt or retained gilt is entered it is important to enter the **tattoo** correctly. This tattoo is used to identify and match associated piglet in the PICTraq database.

Note: *There may be times a pig in PICTraq with the same tattoo has already been associated with a sow. If this happens the visual identity entered in PigCHAMP must match the existing stig for the pig in PICTraq along with the tattoo and arrival date of within 5 days for the association to be made.*

**Match is found notification:** Selecting “yes” will complete the arrival in PigCHAMP and associate the Piglet tattoo in PICTraq.

**Match is not found error:** Selecting “yes” will arrive the gilt into PigCHAMP but will not associate or create a Piglet tattoo in the PICTraq program.

After you save an arrival event in PigCHAMP, if the gilt identity is different than the stig (visual id) associated with the piglet in PICTraq, there will be a “Rename” event in PICTraq. PICTraq will show two events on that same day, events will be an arrival and a retag event. See PICTraq screen below:
Gilt/Retained Gilt Arrivals: There are 2 additional required fields that must be entered when bringing in new females to the herd.

1. **Date of Birth:** Date female was born, this DOB must match with the date of birth currently in PICTraq.
2. **Tattoo:** PIC will provide you with the tattoo stig or recommend the tattoo format to use

Semen Purchase: There are additional fields that must be entered related to PICTraq semen batches.

As mentioned above you can continue to enter your semen batches in the format you currently use. However, moving forward there is some additional information needed about the batch to enable data to correspond between the two (2) programs.

1. **Boar Identity:** This field represents the PIC Stig that is to be available on the AI batch label and must be provided for every unique batch created.
2. **Pooled Semen:** This is a required field that the farm is to provide when semen is pooled (mixed). More than 1 boar was collected to create the batch. If this is the case, select “Yes” by default “No” is selected.

For some farms there can be additional required fields if you receive semen for the farm and/or organization from multiple boar studs and/or if you receive frozen semen.

3. **Source:** Select the AI Boar Stud semen was received from and is mapped to a valid PICTraq Stud. Only need if receiving semen from multiple sources.
4. **Frozen Semen:** Select “Yes” if you receive semen from PIC that is frozen. By default, “No” is selected. Only clients receiving frozen semen need to have available for data entry.

Mating Events: There is nothing different about the mating event they continue to behave the same however clients have experienced some errors related to not having the semen purchase information correct. When this occurs, the mating will not be recorded and must be fixed manually in PICTraq.

Wean Events: Only a Complete Wean event entered in PigCHAMP will pass a Wean event to PICTraq. Part Weaning and Nurse Sow Wean events will not upload to PICTraq at time of entry until a complete wean is recorded.

**Editing and Deleting Events**

Real-time users can edit any existing events in PigCHAMP if entered incorrectly however, the PICTraq system will only allow you to alter the latest event through the PigCHAMP edit functionality. Events you are unable to edit must be altered in PICTraq manually.

Batch users can edit data that has already been sent to PICTraq once changes/corrections are completed in PigCHAMP submit the changes from the female’s history. Locate the drop option provided next to the PIC logo.

Select record this event in PICTraq to submit changes. Please note the below real-time PICTraq rules apply.
Latest PICTraq Event: If the event being edited is the latest event in PICTraq the event information will be updated.

![Image](image1.png)

Older PICTraq Event: If this is **not** the last event for this sow, PICTraq will not allow the update to the sow’s history. You will receive a warning “If you say “Yes” PigCHAMP will proceed to update the data but will not update in PICTraq.

If you are deleting an event from PigCHAMP, that is not the latest event in PICTraq a similar warning will occur.

![Image](image2.png)

Error and Warning Log File

Whether you are entering data real-time or uploading as a batch the interface with PICTraq includes an error and warning log for data that is validated as incorrect or not matching the expectations based on the PICTraq database.

The log files will be saved to the following directory in PigCHAMP as a *.csv format.  
C:\Program Files (x86)\PigCHAMP V9.1\logs

The file will be called **PICTraqUpload** which includes the date and time the upload occurred.  
Future iterations we will be adding a farm identification to the log file to be able to locate faster.

The log file has 4 columns; Identity, Event Date, Event Description, and the message returned by PICTraq as to why there was an issue with the data.

**Example output:**

![Log File](image3.png)

When errors occur most of the time it is when data is not in PICTraq such as a wean or farrowing or data is mismatched such as an incorrect semen batch boar identity.

These types of issues will need to be corrected manually within PICTraq.
Comparing Pig Event History between PigCHAMP and PICTraq

To help with the data accuracy between the two databases we have created a unique feature that enables you to compare an animal’s history directly in PigCHAMP for both databases.

Below are the instructions on how to access and use the compare option.

Compare Pig Event History:

1. Click on Search and Edit> Identity> Type in pig identity in the box > Click Search, Pig history will propagate for that animal.

2. Click on PICTraq button> Show events in PICTraq

Note: This button will only be available if the farm is setup as a PICTraq farm and the pig displayed is of the correct genetics

3. PICTraq history will be retrieved and compared to PigCHAMP event history
   - Same events in both databases will appear in black
   - Discrepancies
     a. If difference in event detail the event line will be highlighted
     b. If difference in event date will display the event date in red

   o You can hover your mouse over the date/event marked as discrepancy to see the conflicting details
Some PigCHAMP events will remain grayed out because no equivalent or comparative event exists in the PICTraq database.

If events are in PICTraq but not recorded in PigCHAMP, they will appear in the pig history with the event name in red. Hovering the mouse over the event will confirm it exists in PICTraq but not in PigCHAMP.