Inmotio System®

Preparation of measurement using the Inmotio System

Improve your Performance

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Improve your performance

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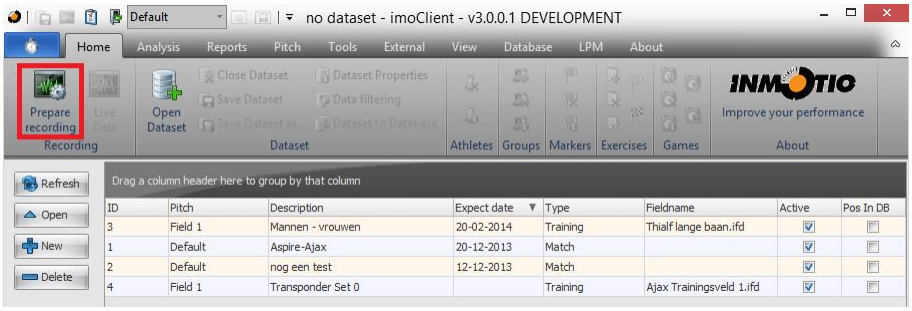
1 Preparing a recording

1.1 Introduction

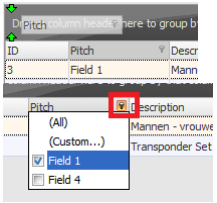
Before any measurement taking place, most of the operators know which athletes they are going to measure and which one is wearing which transponder. So now it is possible to prepare the recording before the measurement has been started. Therefore, during a measurement no transponders have to be linked to an athlete because this has already been done. Also when you start the “imoClient” on any other device (laptop/tablet) these names have already been filled in for you.

1.2 Search screen

The preparation is done in the imoClient.



Visible is the grid with all the preparations.



By dragging the column header to the top, the grid can be grouped by the pitches.

It is also possible to filter the grid. Go with the mouse to the column header en press the marked button.

Refresh the grid

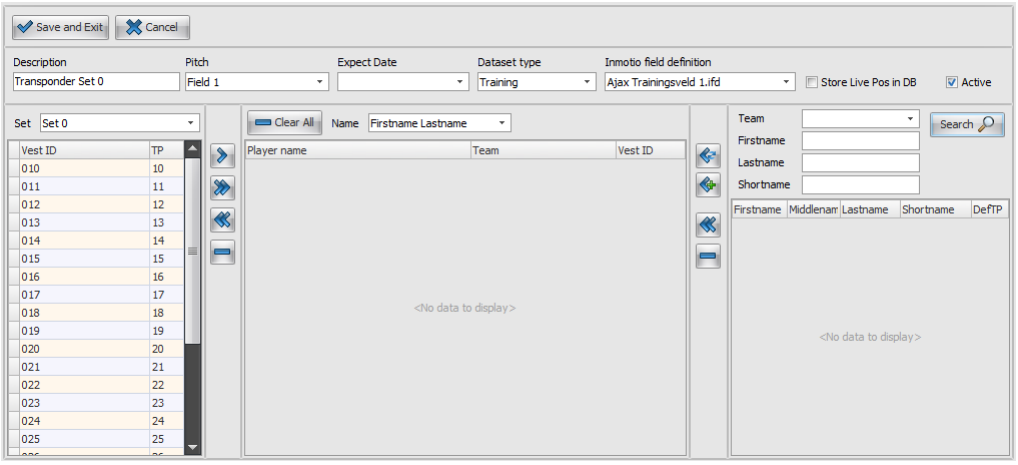
Open the selected preparation. You can also open a preparation by double clicking the selected row.

Create a new preparation

Delete 1 or more selected preparation.

1.3 Edit screen

1.3.1 General settings

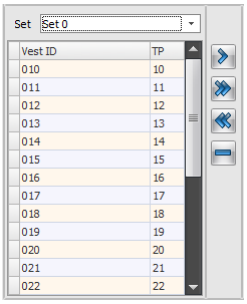


On the edit screen you can set up the preparation of the measurement.

- Save and Exit: Saves the changes and shows the search screen.
- Cancel: Close the edit screen without saving changes.
- Description: A useful name for the preparation so it is easy to identify in the imoServer
- Pitch: On which pitch is the measurement taking place.
- Expect Date: On what date is the measurement going to happen. In the imoServer all preparations without a date are visible and those which are taking place on the current date
- Dataset type: Required for reports when different type of recordings are done with LPM
- Inmotio field definition: the ifd-file that has to be loaded by the “imoClient” when the recording is started.
- Store Live Pos in DB: Save the Gaussian filtered data in the database for transponders that are connected to players. This is only useful when the WebClient is running. Positions are removed from the database a day after recording in order to keep the size of the database low so the Express version of MS SQL Server can be used.
- Active: This preparation can be selected if checked.
- Set: Selection box of the set of transponders, configured in "**Fout! Verwijzingsbron niet gevonden.**"
- Clear All: Removes all Transponders from the list.
- Name: How the name of the player is visible in imoServer and imoClient.
- Search: Search for a player or players in a team.

1.3.2 Transponder selector

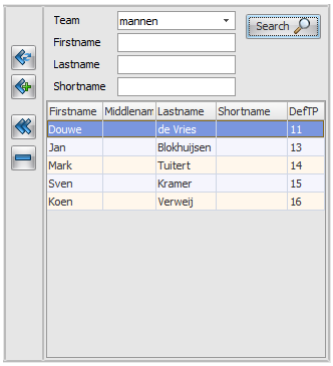
Selection transponders for a preparation. Select the set you want to use.



: Add selected transponder to the list
: Add all transponders to the list
: Remove all unassigned transponders from the list
: Remove selected transponder from the list, even if there is a player connected.

1.3.3 Player selector

Select players for the measurement.



Search: Select a team and press search so all members of that team will be listed. You can also search for ”first name”, “last name” or “short name”. You don't need to type the whole name, just a part of it will be enough to find the right person.

: Replaces the player of the selected transponder with the selected player in the search grid.

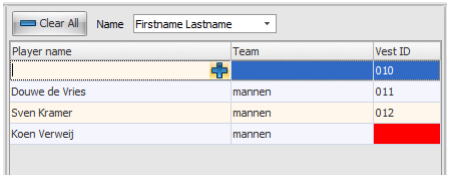
: Add the player in the search grid to the transponder list. Player is not automatically connected to a transponder.

: Add the whole search grid to the transponder list. If the "DefTP" is available in the "Transponder List" or in the "Set", the player is automatically connected to this transponder.

: Disconnect the player from the selected transponder.

1.3.4 Transponder list

De list of prepared transponders

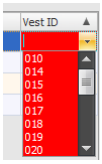


Clear All: Removes all the transponders from the list

Name: When adding players to the transponder list this is how the Player name is made.

: When the player is not in the DB you can add him by clicking this button.

Vest ID: Because a transponder is no longer unique on the first 2 digits, It is now called “Vest ID” so also the “Set ID” is a member of this value.



Cell "Vest ID" is mandatory, when it is not filled it is marked red. Select a "Vest ID" from the dropdown list.

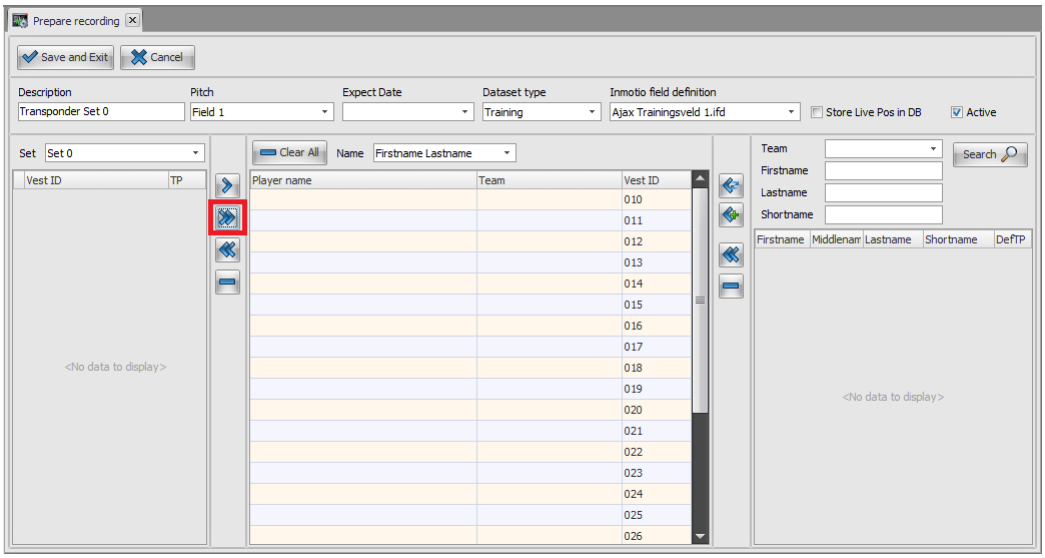
1.4 Scenarios

There are a few scenarios.

1. Transponders are not connected to a player.
2. In a certain team a player is always using the same transponder.
3. Players don't have a default transponder.
4. Multiple teams using different transponder sets.

1.4.1 Transponders are not connected to a player.

If the transponders are not assigned to the players, this option can be used.



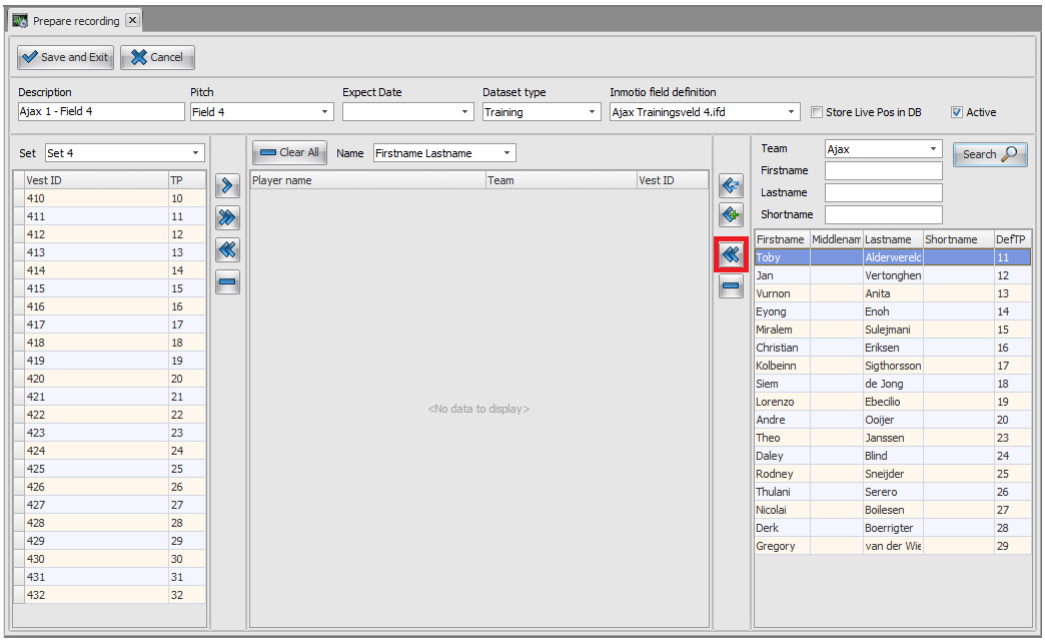
- Leave the "Expect Date" empty
- Select a transponder set and press the marked -button.

1.4.2 In a certain team a player is always using the same transponder

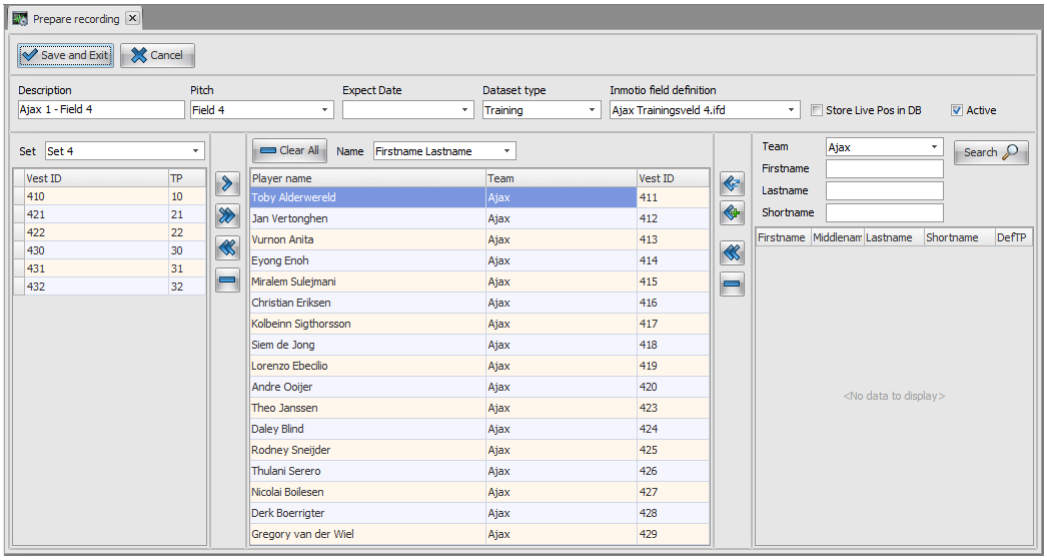
Leave the "Expect Date" empty.

On the left side, select the Transponder set (Set 4 in this example)

On the right side, select the team you want to prepare



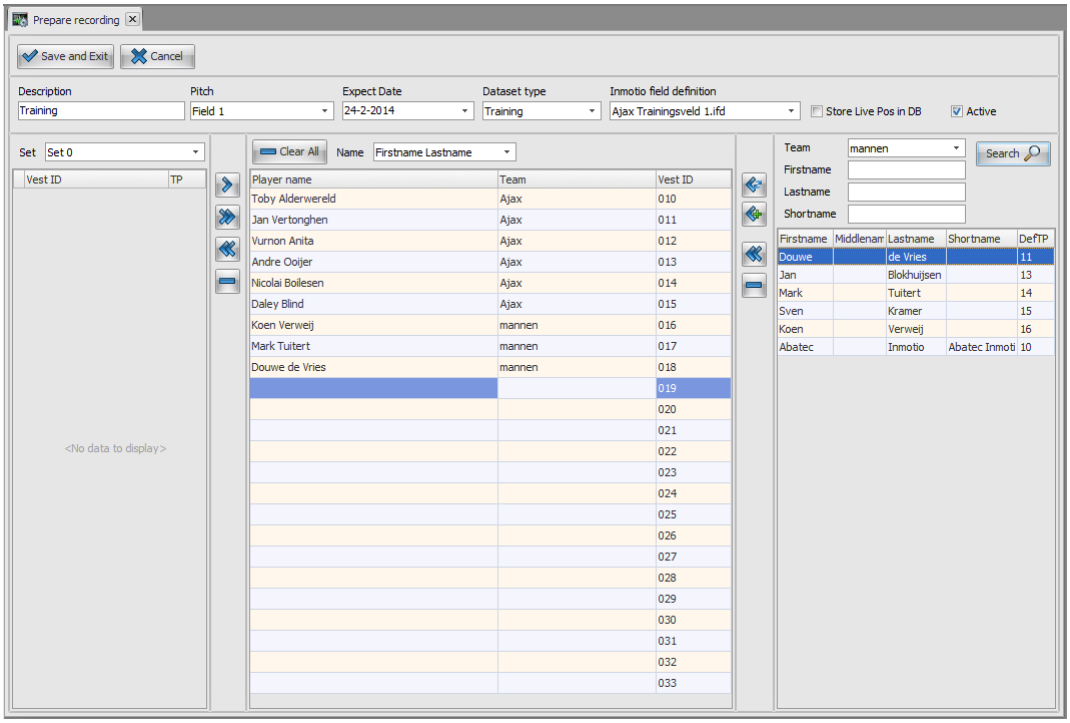
Press the -button on the right.



The result of the button click action is shown above. All players are connected to their default TP using the available Transponder set. You can add the unused transponders by clicking the button

1.4.3 Players don't have a default transponder.

When players don't have a default TP or they don’t wear their default TP, you first need to add the transponder set to the available transponder list. Now select the first row and search for a team or player which is going to wear that transponder. Now double click the player from the search grid so it is connected. The next row will be selected. So you can double click the next player.



1.4.4 Multiple teams using different transponder sets.

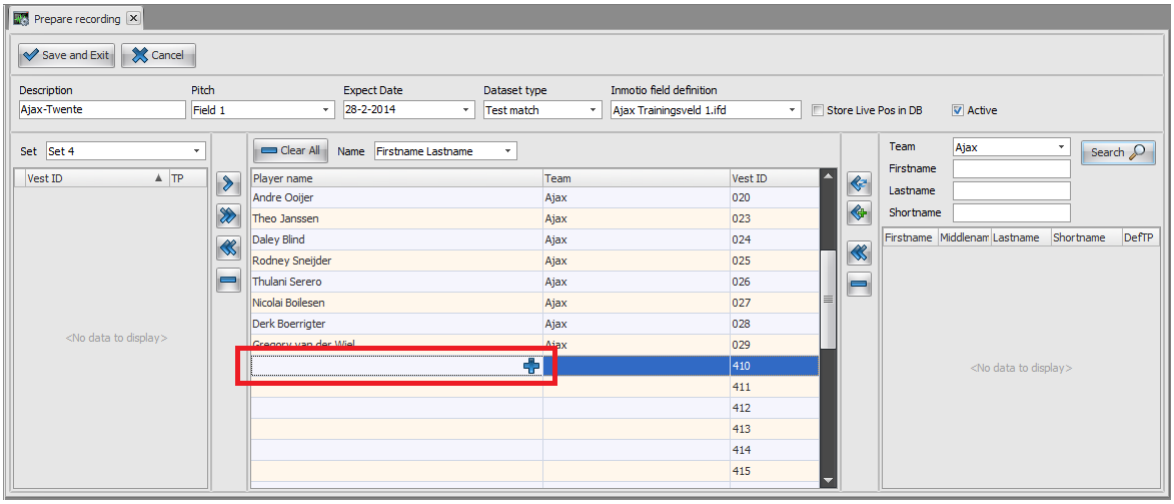
In some cases it is most likely there is 1 team which you are measuring frequently (the home team) and there is a visiting team. The home team can wear a set of transponders and the visiting team can wear a different set of transponders.

In this example the home team is wearing their default transponder. The visiting team is not yet in the system but we have a player list and know already who is going to wear which transponder.

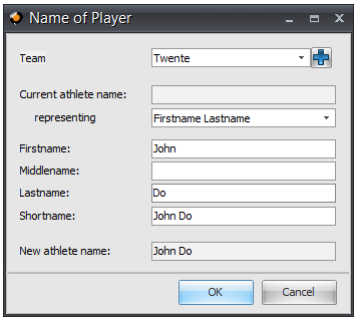
Because we know when this will happen also fill "Expect Date" with the date it will happen.

First follow scenario 2 for the home team.

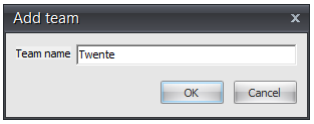
Now select the other transponder set and add it to the transponder list.



Press the ✚ button.



When the team doesn't exist, press the ✚ and add the team.



Fill the name fields and press "OK"

Repeat these steps until you have added the whole team.

2 Starting a Measurement

2.1 Preparation

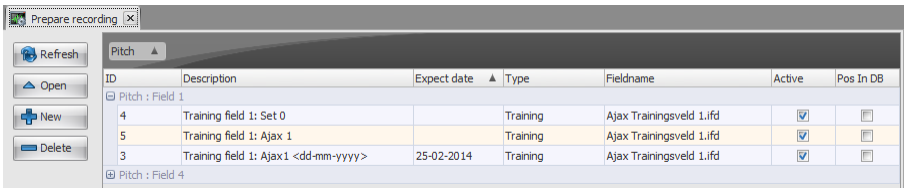


Figure 1: Prepare recording overview

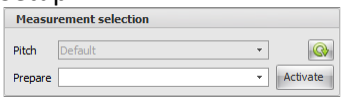
There are 3 Scenarios:

1. Training field 1: set 0
   transponder set 0 has been selected and no players are connected to transponders
2. Training field 1: Ajax 1
   Transponder set 0 has been selected and the players of "Ajax 1" are connected to the transponders
3. Training field 1: Ajax 1 <dd-mm-yyyy>
   Transponder set 0 has been selected, the players of “Ajax 1” are connected to the transponders. The "Expect date" has been filled. In the description you can change <dd-mm-yyyy> to the corresponding date.

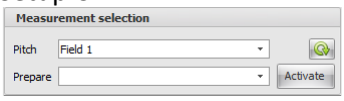
2.2 imoServer

Depending on which scenario the measurement pitch is setup you will see one of the three screens presented below. In this example there are no transponder.ini files located on disk. So the Transponder list is empty.

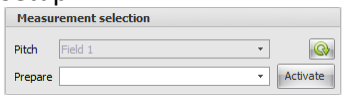
Setup B



Setup C



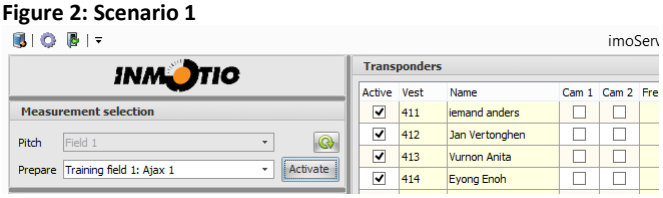
Setup D



If you forgot the preparation before you started imoServer, you can add it in “imoClient” and when you are finished adding, press the refresh button

As you can see there is no "Name" column

Figure 2: Scenario 1



Because players are assigned to a transponder there is a "Name" column with the player name

Figure 3: Scenario 2

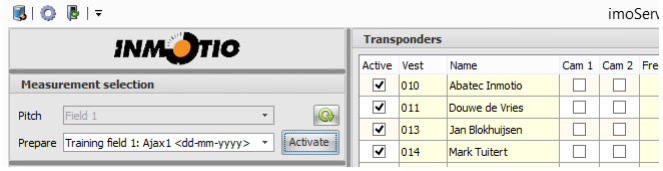


Figure 4: Scenario 3

If required, select a pitch and select a preparation. You can already start the LPM server by pressing the "Activate" or you can do this in the “imoClient” at login.

2.3 imoClient

If imoServer is running you get the "Live Data" button in the Client. At most users the restricted login is not used, so the "Username/password" is not shown unless it is enabled in imoServer. If the restricted access is going to be used, the system uses the authentication table in the database.

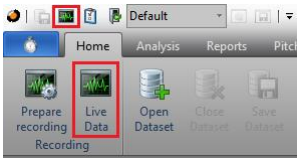
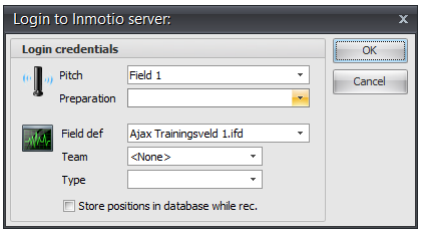


Figure 5: Live data button

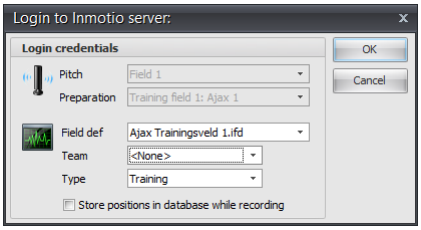
If you are using "Setup C" you can choose a pitch. When using the other setups, the selection of "Pitch" is gray.

If you didn't activate the preparation in imoServer you get the following Login screen.



Pitch: Selection of available pitches
Preparation: List of preparations
Field def: ifd-file for 3D viewer
Team: Select a team you are going to measure
Type: Type of measurement
Store positions in database while recording: This is mainly for the WebClient. When using live mode on a mobile device

If you did activate a preparation with does not have an "Expect Date" in imoServer, you get the following login screen:



You can still select a field def which will be used in imoClient. You can select a Team, but if you already have connected players to the transponders you can leave it blank (<none>). If you didn't connect players to the transponders, please select a team here.

The last option is you have selected a preparation with an "Expect Date" in imoServer and you have activated it. In this case the recording is started without login screen.