

# **Multiweigher Console Manual**

**Developed By**



**Version 1.0  
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# 1 Introduction

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This document is the functional specification for the remote AxiBatch HMI for a front end loader.

## **1.1 License Agreement**

The Multiweigher Console software is licensed to the end user to be installed on one computer per individual license. This software requires registration whereby the installed computer ID is required.

## **1.2 Publishing Rights**

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## **1.4 Definitions**

<b>CONSOLE</b>	Station that consists of this software running on it.
<b>SCALE</b>	Weighing device
<b>SAMPLE SET</b>	A weighment of X samples in a group.

## **1.5 Features**

*Multiweigher Console* is designed to run on a Microsoft Windows operating system. The Multiweigher Console software package was written using Microsoft C# and requires Net Framework 4 to run. This software should run on most Microsoft operating systems that use NetFramework 4, which includes XP Service Pack3 and Windows 7. The software was designed to meet the growing needs and requirements for weight and data capture in industry today.

The Multiweigher Console software is capable of connecting to the Database server from any remote computer via the ethernet/internet networks

Reports can be exported in the following formats :

- Crystal report
- PDF
- CSV
- Excel (xls orxlsx)
- Doc
- RTF
- XML



## 1.6 Hardware Requirements

### 1.6.1 Recommended Computer Hardware Requirements for Windows 7

- Intel Core i7 chip (4 Core)
- 19" TFT Colour Monitor (2 Monitors with Extended capability)
- 250GB (100 MB Free Hard Drive Space)
- 4 to 6 GB RAM
- 10/100/1000 Ethernet
- CD/DVD ROM Drive

## 1.7 Software Capabilities

The following indicate the features that are available in this software.

Function	Description	Sampling Station	Device Server
Products	Edit and View Product Table. Filter options and build up to 10 user defined product reports.	Yes	Yes
Users	Edit and View Users. 1 Standard User report with filtering options.	Yes	Yes
Standard Masses	Edit and View Standard Masses table	Yes (used in Standard Mass Verification)	No
Checkweigher Dashboard	View Current Checkweigher Summary and produce Histogram Report	No	Yes
Scale Dashboard	View Packing Scales Summary	No	Yes
Reports Scale	Reports for Packing Scales. Filtering and Build up to 10 user defined reports, plus inbuilt Packing Report per Operator	No	Yes
Reports Checkweigher	Reports for Checkweighers. Filtering and build up to 20 user defined reports. Print a Histogram Report on any Checkweigher run	No	Yes
Reports Samples	Reports for Sample Sets. Filtering and build up to 20 user defined reports. Create a Histogram report on 1 to multiple Sample Sets. Includes Standard Sample Set Report for 1 Sample Set. View samples on screen.	Yes	No
Settings	Define color code for Checkweigher Dashboard when accepted value falls below setpoint for indication Define your own Scale Dashboard View		

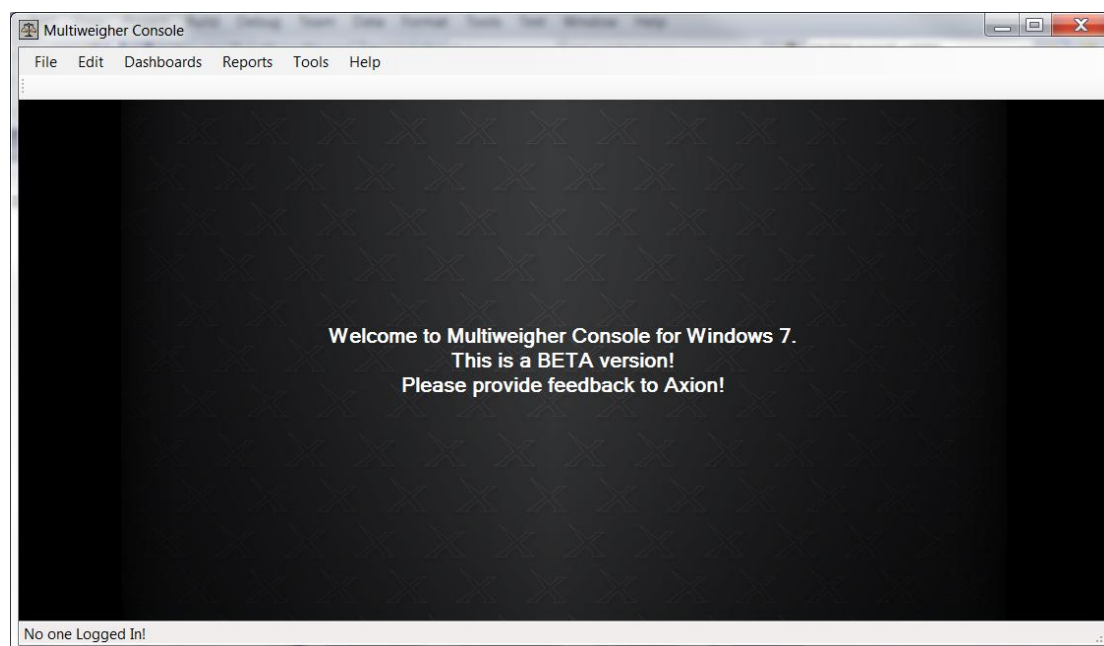


## 2 Console Software

### 2.1 Launching Console



Double Clicking the Multiweigher Sampling Station icon on the desktop will launch the Multiweigher Console software package. The screen below will be displayed



### 2.2 Logging In

Multiweigher Console Station software identifies three user levels and their passwords for authentication and protection.



#### Level 1

**Operator** user name only gains access to viewing Reports.



#### Level 2

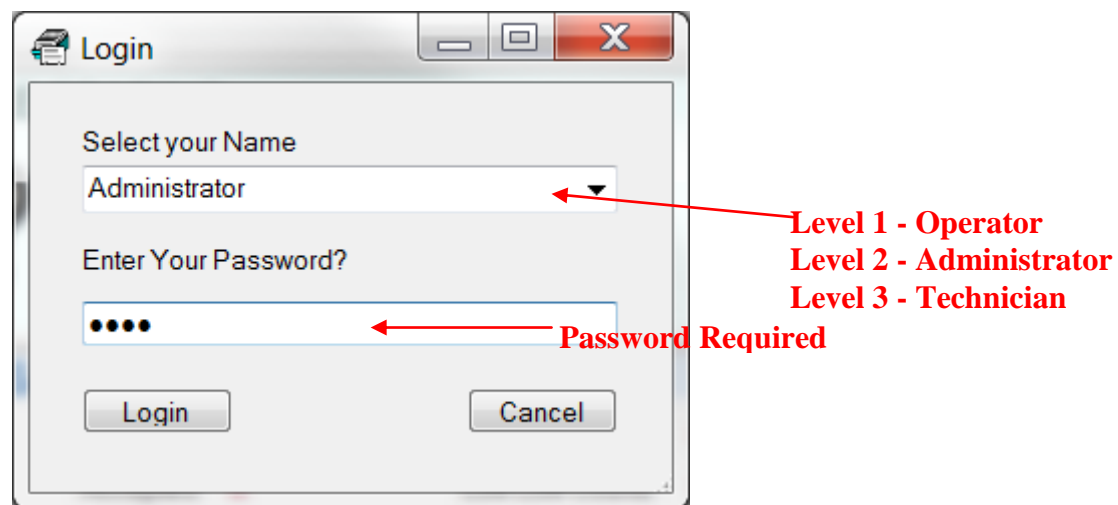
**Administrator** user name has access to the same functions as the operator plus access to most of the settings.



#### Level 3

**Technician** user name gains full access..





The Multiweigher Console software will automatically come with 3 user names. They are Operator, Administrator and Technician.

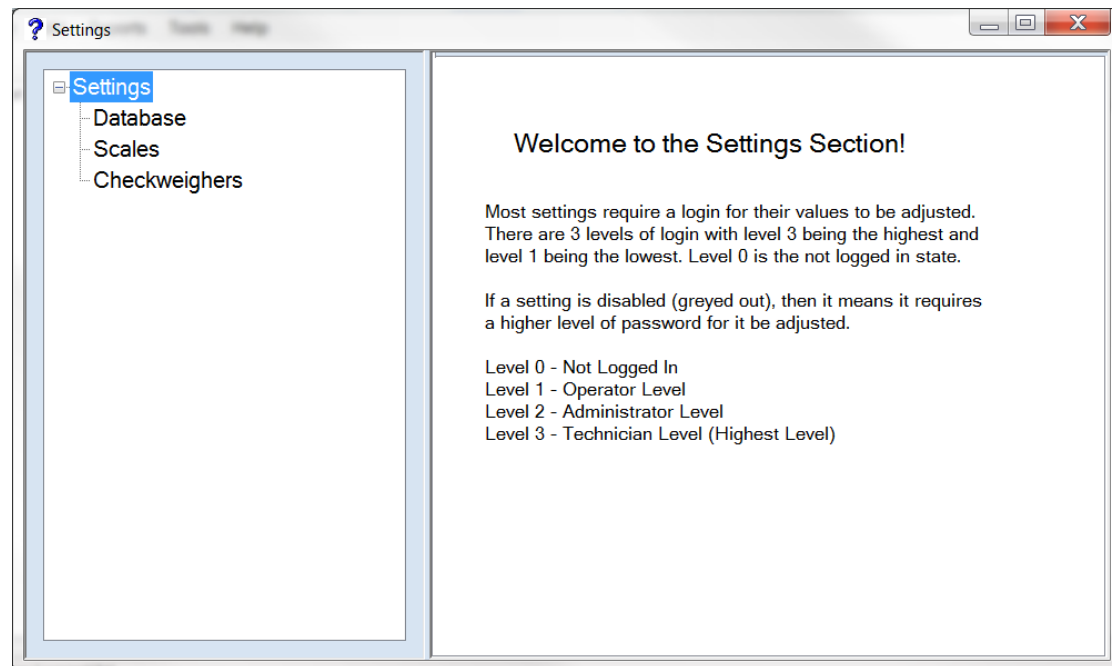
You can add additional Level 1 and 2 users using the Multiweigher Server Software if you use the full license.

When the login button has been pressed the Multiweigher Console Sampling software will identify which version has been installed and acknowledges the user and their level of access.



### 3 Accessing the Settings

To setup Multiweigher Console you will need to login to gain access to the "Settings" page. The following sections summarises each setting with access level shown.

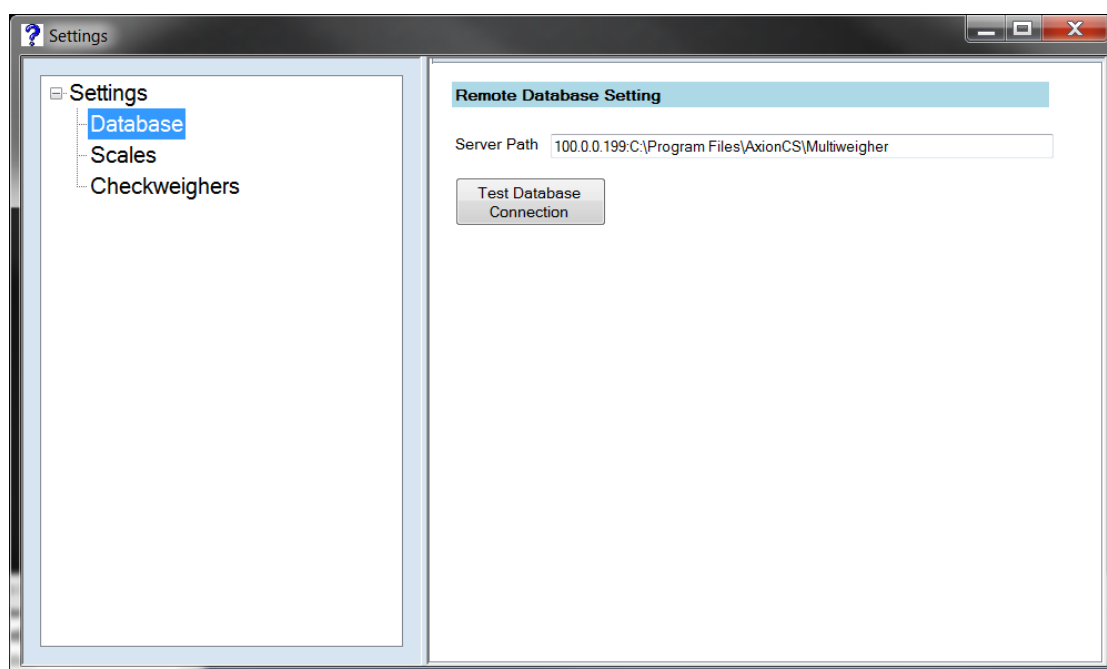


To gain access to the settings screen click on Settings->Settings.

To access the database settings select "Database".



## 3.1 Database



### 3.1.1 Server Path

This is the path of the Database location. It is made up of the Computer Name or IP Address, followed by a colon, followed by the directory path of the database at the destination computer.

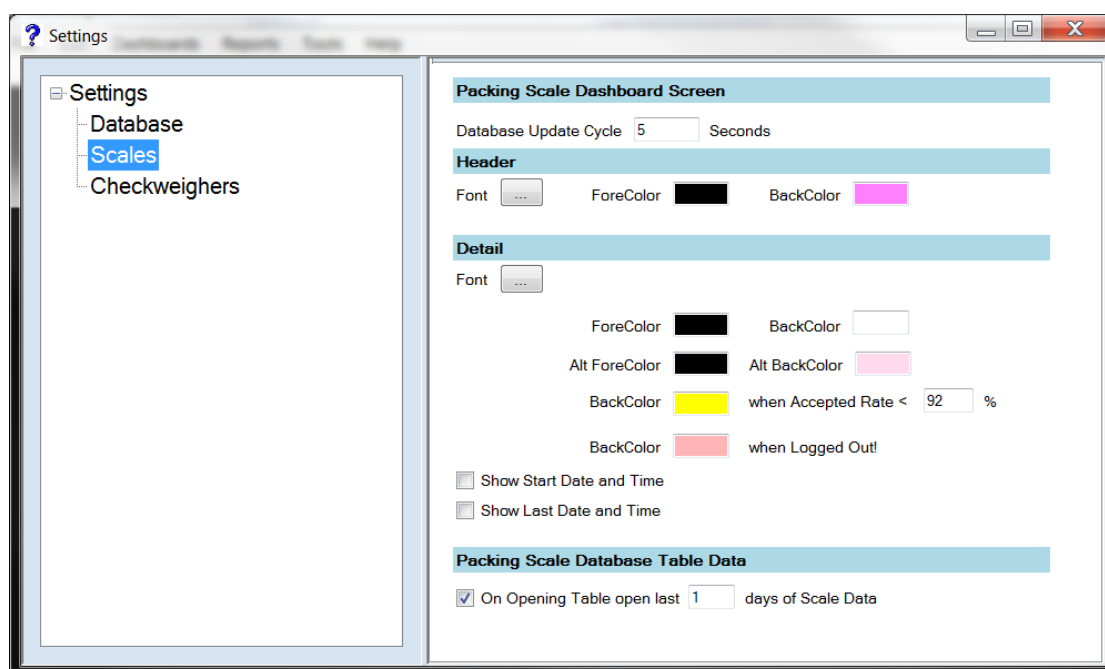
Examples ...

ComputerName:C:\Program Files\AxionCS\Multiweigher

100.0.0.79: C:\Program Files\AxionCS\Multiweigher



## 3.2 Scales



### 3.2.1 Database Update Cycle

This is used as an update time when displaying the Packing Scales Dashboard. Note that there is also a time setting in the Multiweigher software itself that allows Multiweigher to update the table that provides information the Console dashboard.

### 3.2.2 Header

You can change the font, the fore color and back color of the Packing Scales dashboard header.

### 3.2.3 Detail

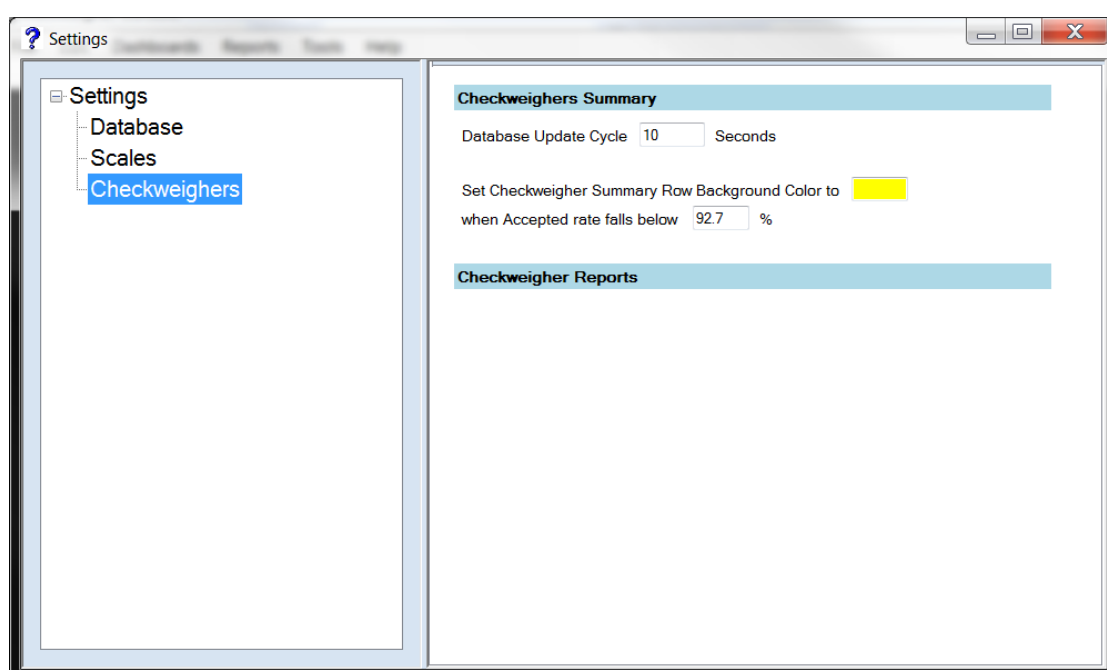
You can change the font, the fore color and back color of the Packing Scales dashboard detail section (live fields). You also have alternate colors (alt) that you can set up. That is a different color scheme for alternate rows.



### 3.2.4 Packing Scale Database Table Data

When opening the Packing Scale Report screen, this will be used to open a small dataset of data to prevent from opening up the full table that may have thousands of records that will cause long delays.

## 3.3 *Checkweighers*



### 3.3.1 Database Update Cycle

This is used as an update time when displaying the Checkweigher Dashboard. Note that there is also a time setting in the Multiweigher software itself that allows Multiweigher to update the table that provides information the Console dashboard.

### 3.3.2 Accepted Rate

This will set the row to the background color when the accepted rate is below the figure entered.



## 4 Table Editing

This section describes how to make changes to a database table. Editing is limited to the Product, Users and Standard Masses table.

Below is an example of the Product Table.

The screenshot shows a software window titled "Products". At the top, there is a navigator bar with icons for first, previous, next, and last record, along with a record number display showing "2 of 8". Below the navigator is a search bar and a dropdown for "Search In". To the right, there is a dropdown for "Order By" and a button for "Select Order".

The main form contains fields for editing a product:

- Product Code:** LISW3155
- Product Name:** Beef and Onion 300
- Enable:** ENABLED
- Low Low SP:** 6.2
- Pouch Size:** 200
- Target:** 311.2
- Low SP:** 4.1
- Units:** grams
- High SP:** 4.2
- Product Description:** 300gm Beef and Onion Stock
- Nominal Weight:** 300.6
- High High SP:** 6.1
- Tare Weight:** 9
- SG:** 1.1

Below the form is a table with columns: Code, Product Name, Code in Device, Name in Device, Target, Nominal, Tare, Units, Enabled, Low Low Setpoint, Low Setpoint, and High Setpoint. The table contains several rows of product data, with the second row (LISW3155) highlighted in blue.

At the bottom of the window, there is a status bar that says "Product Table Loaded".

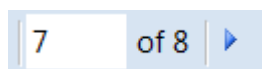
The navigator at the top of the page consists of the following objects.



First Record - Pressing this takes you to the first record.



Previous Record - Pressing this takes you to the previous record.



Record Number - This displays the current record number. Typing a number and then pressing enter will take you to the record number that you have entered.



Next Record - Pressing this will display the next record.



Last Record - Pressing this will display the last record.





Add Record - Pressing this will add a row to the bottom of the table. (You can also add a row manually by just typing in the last empty row that has a cursor on the left hand side of the screen).



Delete Record - This will delete the record selected. (Selected record has an arrow head located on the left hand side of the screen.)



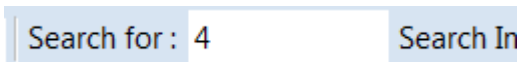
Save - This will light up when editing has occurred. Otherwise will be greyed out. Pressing this will commit all changes to the database.



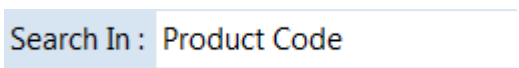
Cancel - Will undo any changes on the current record you are in.



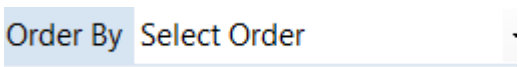
Rollback - Will undo all edits before the last Save was done. It will prompt you with a Yes or No prompt.



Search For - The search text



Search In - The Field column you want to do the search in. You must select the field first, then type in the text in the Search For area. It will search part words. If a full match is found the whole row will be highlighted in blue.



Order By - Will refresh the database with the order you selected. If you want to reorder without refreshing the database, click on the column headers. This is much faster.



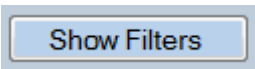
Refresh Product Table - Will refresh the data from the Database.



Print - Will print a report that have select from the "Select a Report" combo box.



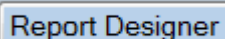
## **4.1 Others ....**

A rectangular button with a light blue gradient background and a thin black border. The text "Show Filters" is centered in a black, sans-serif font.

### **Show Filters**

Show Filters - Will open up a query box where you can select multiple queries. Press the Update button to refresh the data from the database based on your queries selected, otherwise press cancel and nothing will happen.

Please note that some fields will not be loaded into the table. This is based on your filtering/query selection. This is done for speed. Hence when building a report that uses a field that does not appear in the table, then data for that field will not be loaded for that report.

A rectangular button with a light blue gradient background and a thin black border. The text "Report Designer" is centered in a black, sans-serif font.

### **Report Designer**

Report Designer - Will give you access to design your own reports. There is another section in this manual devoted to this.

## **4.2 Mouse Right Click Features**

This will vary from Table to Table and will allow quick selection of a field where that field contains fixed selections. Example in the Product table you can right click and select units, then go across and select the unit required. It will then populate the units field automatically with what you have selected.



## 5 Report Designer

This section describes the functionality of the Report Designer.

### 5.1 *Report Designer Basics*

On entry to the Report Designer, you first choose the report you want to change, via the top left drop down box. There may some initial reports that come with the system, however these can be changed. Depending from where you come from, there will be set number of reports that can be changed.

Once the report is selected you can change the name of the report. So when you select it the next time it will be familiar to you.

#### 5.1.1 Report Title

This is what will appear at the top center of your report as a title. You can change the font and color of this title with the buttons labeled 'Font ...' and 'Color ...' respectively.

#### 5.1.2 Field Title

You can change the Font and Color of the field title with the buttons labeled 'Font ...' and 'Color ...' respectively to right of "Field Title".

#### 5.1.3 Field Name

You can change the Font and Color of the field value with the buttons labeled 'Font ...' and 'Color ...' respectively to right of "Field Name".

#### 5.1.4 Save Report

This button will be enabled when the report is changed. Pressing it will save the report parameters. These reports are saved in a xml file in the installation directory. If you exit without saving you will be prompted again to save the modified reports



## 5.2 Report Fields

"Report Field Details" is a data grid showing the layout of the detailed section of your report.

Select Report to Edit  
Group Report (Product)

Report Name: Group Report (Product)

Report Title: Product Group Report

Field Title:

Field Name:

Report Field Details

Field No	Field Name	Product FieldName	Field Title	Field Left Position	Field Width	Decimal Places	Summary Type	Dec Places	Summary
1	SUMMARY_BATCH_NUMBER	SUMMARY_BATCH_NUMBER	Batch	100	1000	0	None	0	None
2	SUMMARY_TARGET							1	None
3	SUMMARY_AVERAGE							0	None
4	SUMMARY_SD							0	None
5	SUMMARY_TOTAL_WEIGHT							1	Sum
6	SUMMARY_MIN							0	None
7	SUMMARY_MAX							0	None
8	SUMMARY_PC_ACCEPTED							0	None
9	SUMMARY_COUNTS_TOTAL							0	None
10	SUMMARY_COUNTS_REJECT							0	None
11	SUMMARY_COUNTS_OK							0	None
12	SUMMARY_COUNTS_LOW							0	Sum
13	SUMMARY_COUNTS_LOWLO							0	Sum
14	None							0	None
15	None							0	None

Save Report

Auto Adjust Left Pos

The grid shows 15 rows, hence a maximum of 15 fields can be used. (Some reports will be in portrait mode, but mostly in landscape).

To edit the field, simply double click on the row, or right click with your mouse and select "Edit Record". A popup box will appear as above. This can be positioned.

Clicking on the Help icon (between the Cancel and Accept buttons) will open this manual at the correct page explaining the database field definitions.

Press the "Accept" button to accept all the field changes, otherwise pressing "Cancel" will cancel you edits.

### 5.2.1 Product FieldName

This combobox will contain a list of database fields available for your report.



### **5.2.2 Field Title**

This text that you input will display in your report as the title for that field in that column.

### **5.2.3 Field Left Position**

This is numerical value that positions your field from the left side of the page. For a landscape setup this field will be typically from 0 to 15,000, and up to 11500 for a Portrait setup.

### **5.2.4 Field Width**

This is the width of your column. Typical value is 1000.

### **5.2.5 Decimal Places**

From this select the number of decimal places required for that field. This has no affect on a Field that is a string format. Maximum of four decimal places can be used.

### **5.2.6 Summary Type**

From this select the summary type from the combo box. This will print a calculated value for that column, in the footer of the report.

The following summary formulas can be used ... (Default is 'None')

None  
Average  
WeightedAverage  
DistinctCount  
Count  
Maximum  
Minimum  
Median  
Mode  
StdDev  
PopulationStdDev  
PopulationVariance  
Sum  
Variance

Note that the Decimal Points field will be applied to these summary fields.



### **5.2.7 Auto Adjust Left Position**

This button when pressed will try to automatically adjust the 'Field Left Position' and 'Field Width'.



## 6 Report Fields

This section describes all the report fields available so you can use in building your own reports.

### 6.1 Checkweigher Fields

These fields apply to for data that comes from the Checkweigher database.

Fieldname	Type	Description
SUMMARY_PRODUCT_NAME	String	Company Product name that originally comes from the Product Table
SUMMARY_PRODUCT_CODE	String	Company Product code that originally comes from the Product Table
SUMMARY_CWPRODUCT_NAME	String	Product name that comes directly from the Checkweigher Device
SUMMARY_CWPRODUCT_CODE	String	Product code that comes directly from the Checkweigher Device
SUMMARY_PRODUCT_UNITS	String	Units used for that Batch run.
SUMMARY_BATCH_NUMBER	String	Batch number entered for that run
SUMMARY_LINE_NUMBER	String	Line Number batch was run on
SUMMARY_DEVICE_NUMBER	Integer	Device Number to identify the Device in Multiweigher Server (Numbered between 1 and 255)
SUMMARY_CW_NAME	String	The user configured Device Name
SUMMARY_TARGET	Float	The Target Weight as defined in the Checkweigher
SUMMARY_TARE	Float	The Tare Weight as defined in the Checkweigher
SUMMARY_ZEROBAND	Float	The Zero Band as defined in the Checkweigher
SUMMARY_FULLFILLING	Float	The Full Filling Value as defined in the A&D Checkweigher
SUMMARY_LOW	Float	The Low Setpoint as appears in the Checkweigher. In Multiweigher it is always shown as an offset.
SUMMARY_LOLOW	Float	The Low Low Setpoint as appears in the Checkweigher. In Multiweigher it is always shown as an offset.
SUMMARY_HIGH	Float	The High Setpoint as appears in the Checkweigher. In Multiweigher it is always shown as an offset.
SUMMARY_HIGHHIGH	Float	The High High Setpoint as appears in the Checkweigher. In Multiweigher it is always shown as an offset.
SUMMARY_AVERAGE	Float	The average of the Batch run as calculated by either the Multiweigher Software or the Checkweigher Device
SUMMARY_TOTAL_WEIGHT	Float	Total Weight of the Batch run in kg
SUMMARY_SD	Float	Standard Deviation as calculated by



		Multiweigher or the Checkweigher Device itself
SUMMARY_SD2	Float	Population Standard Deviation as calculated only by the Checkweigher Device itself. Only available in some Checkweighers
SUMMARY_MIN	Float	The minimum value measured in the Batch. Either calculated by Multiweigher or comes from the Checkweigher Device itself
SUMMARY_MAX	Float	The maximum value measured in the Batch. Either calculated by Multiweigher or comes from the Checkweigher Device itself
SUMMARY_MEDIAN	Float	The median (middle value in a set) value measured in the Batch. Either calculated by Multiweigher or comes from the Checkweigher Device itself
SUMMARY_PC_ACCEPTED	Float	Calculated by Multiweigher, is the accepted counts as a percentage of the Total counts.
SUMMARY_COUNTS_TOTAL	Integer	Total packs counted by the Checkweigher
SUMMARY_COUNTS_OK	Integer	Total Accepted packs counted by the Checkweigher
SUMMARY_COUNTS_REJECT	Integer	Total Rejected packs by the Checkweigher
SUMMARY_COUNTS_DUPLICATION	Integer	Packs that were detected by the Checkweigher as a double pack. Only some Checkweighers store or calculate this count.
SUMMARY_COUNTS_CRUSH	Integer	When there are more packs between the weighing conveyor and the rejecter than the Checkweigher can handle this is a crush error and is counted. This is available in some Checkweighers. (Multiweigher can also use this field as an external counter when attached to Moxa IO Device that has a Product Sensor connected to it)
SUMMARY_COUNTS_LOWLOW	Integer	Counts of packs that weigh below the Low Low Setpoint. This can be calculated by Multiweigher if the Checkweigher is not able to provide this data.
SUMMARY_COUNTS_LOW	Integer	Counts of packs that weigh below the Low Low Setpoint. This can be calculated by Multiweigher if the Checkweigher is not able to provide this data.
SUMMARY_COUNTS_HIGH	Integer	Counts of packs that weigh above the High Setpoint. This can be calculated by Multiweigher if the Checkweigher is not able to provide this data.
SUMMARY_COUNTS_HIGHHIGH	Integer	Counts of packs that weigh above the High High Setpoint. This can be calculated by Multiweigher if the Checkweigher is not able to provide



		this data.
SUMMARY_COUNTS_ERROR	Integer	Counts of packs where a decision could not be made on the weight, due to high speed or other unknown considerations. This typically comes from the Checkweigher and may not be available in most.
SUMMARY_COUNTS_METAL	Integer	Some Checkweighers can have metal detectors integrated with them, and they have the ability to store the Metal Detected Counts.
SUMMARY_DATE_STARTED	Date	Date of when Batch was started
SUMMARY_TIME_STARTED	Time	Time of when Batch was started
SUMMARY_DATETIME_STARTED	DateTime	Date and Time of when Batch was started
SUMMARY_DATE_FINISHED	Date	Date of when Batch was ended
SUMMARY_TIME_FINISHED	Time	Time of when Batch was ended
SUMMARY_DATETIME_FINISHED	DateTime	Date and Time of when Batch was ended
SUMMARY_DURATION	Integer	Duration of Batch in minutes
SUMMARY_DURATION_HOURS	Integer	Duration of Batch in hours
SUMMARY_OPERATOR_NAME	String	Operator who is logged in Multiweigher. More relevant for Packing Scales.
SUMMARY_UPPER1	Float	Future
SUMMARY_UPPER2	Float	Future
SUMMARY_LOWER1	Float	Future
SUMMARY_LOWER2	Float	Future
SUMMARY_T1_WEIGHT	Float	T1 Setpoint as comes from Checkweigher or Multiweigher itself (product table)
SUMMARY_T2_WEIGHT	Float	T2 Setpoint as comes from Checkweigher or Multiweigher itself (product table)
SUMMARY_HIST_INTERVAL	Float	Typically used for Histogram Report. Histogram weight interval.
SUMMARY_HIST_BASE	Float	Typically used for Histogram Report. Histogram target base weight.
SUMMARY_HIST1	Float	Typically used for Histogram Report. Counts in the 1st area of the Histogram.
SUMMARY_HIST2	Float	Typically used for Histogram Report. Counts in the 2nd area of the Histogram.
SUMMARY_HIST3	Float	Typically used for Histogram Report. Counts in the 3rd area of the Histogram.
SUMMARY_HIST4	Float	Typically used for Histogram Report. Counts in the 4th area of the Histogram.
SUMMARY_HIST5	Float	Typically used for Histogram Report. Counts in the 5th area of the Histogram.
SUMMARY_HIST6	Float	Typically used for Histogram Report. Counts in the 6th area of the Histogram.
SUMMARY_HIST7	Float	Typically used for Histogram Report. Counts in the 7th area of the



		Histogram.
SUMMARY_HIST8	Float	Typically used for Histogram Report. Counts in the 8th area of the Histogram.
SUMMARY_HIST9	Float	Typically used for Histogram Report. Counts in the 9th area of the Histogram.
SUMMARY_HIST10	Float	Typically used for Histogram Report. Counts in the 10th area of the Histogram.
SUMMARY_HIST11	Float	Typically used for Histogram Report. Counts in the 11th area of the Histogram.
SUMMARY_HIST12	Float	Typically used for Histogram Report. Counts in the 12th area of the Histogram.
SUMMARY_HIST13	Float	Typically used for Histogram Report. Counts in the 13th area of the Histogram.
SUMMARY_HIST14	Float	Typically used for Histogram Report. Counts in the 14th area of the Histogram.
SUMMARY_HIST15	Float	Typically used for Histogram Report. Counts in the 15th area of the Histogram. (Future)
SUMMARY_HIST16	Float	Typically used for Histogram Report. Counts in the 16th area of the Histogram. (Future)
SUMMARY_HIST17	Float	Typically used for Histogram Report. Counts in the 17th area of the Histogram. (Future)
SUMMARY_HIST18	Float	Typically used for Histogram Report. Counts in the 18th area of the Histogram. (Future)
SUMMARY_HIST19	Float	Typically used for Histogram Report. Counts in the 19th area of the Histogram. (Future)
SUMMARY_HIST20	Float	Typically used for Histogram Report. Counts in the 20th area of the Histogram. (Future)



## 6.2 Packing Scale Fields

These fields apply to for data that comes from the Packing Scales.  
It can also come from a Checkweigher if the Checkweigher is able to stream all it weights and you enable it to do so in Multiweigher.

Fieldname	Type	Description
DATA_PRODUCT_CODE	String	Product Code (selected from the Product Table)
DATA_PRODUCT_NAME	String	Product Name (selected from the Product Table)
DATA_BATCH_NUMBER	String	Entered in Multiweigher.
DATA_WEIGHT	Float	Weight of product measured
DATA_TARGET	Float	Target Weight (Product Table)
DATA_UNITS	String	Units
DATA_DATE	Date	Measurement Date
DATA_TIME	Time	Measurement Time
DATA_DATETIME	DateTime	Measurement Date and Time
DATA_STATUS1	Integer	Status of weight as an integer code 0 = OK 1 = Low, 2 = Low Low 3 = High, 4 = High High 5 = Error (usually means a weight was measure to early)
DATA_STATUS2	String	Future
DATA_OPERATOR_NAME	String	Operator manning the Scale. Usually entered via Multiweigher or a RFID tagging unit.
DATA_UW1	Integer	= 1 if Low, 0 if not Low
DATA_UW2	Integer	= 1 if Low Low, 0 if not Low Low
DATA_OW1	Integer	= 1 if High, 0 if not High High
DATA_OW2	Integer	= 1 if High High, 0 if not High High
DATA_ERROR	Integer	= 1 if Error, 0 if not Error
DATA_FILLNUMBER	String(10)	This is the Filling Stage
DATA_LINENUMBER	String(10)	The Line Number where the Scale is located



## 6.3 Sampling Station Fields

These fields apply to for data that comes from the Sampling Station software.

The prefixes used in front of the field name

SS implies at the start of Sampling

SSS implies at the completion of Sampling

TT implies data to do with a Tare Test

COMP implies data to do with a Compliance Screening Test

MASS implies data to do with a Standard Mass Verification Test

Fieldname	Type	Description
SS_DATE	Date	Date when Sampling was Started
SS_TIME	Time	Time when Sampling was Started
SS_SAMPLE_SIZE	Integer	Intended Sample Size of the Sample Set
SS_TARGET	Float	Target Weight
SS_TARE	Float	Tare Weight (Weight of empty Pack)
SS_NOMINAL	Float	Nominal Weight (Target - Tare). This is used in Compliance Checking
SS_PRODUCT_NAME	String (40)	Product Name
SS_PRODUCT_CODE	String (40)	Product Code
SS_BATCH_NUMBER	String (40)	Batch Number
SS_OPERATOR_NAME	String (40)	Operator who ran the Sampling
SS_OPERATOR_SURNAME	String (40)	Future
SS_TEST	String (20)	If Compliance Test Used during Sampling. "Sample with Screen"
SS_TTINCL	String (3)	'Yes' if Tare Test was included, 'No' if it wasn't
SS_MASSINCL	String (3)	'Yes' if Standard Mass Verification was included, 'No' if it wasn't
SS_STATION	String (40)	Sampling Station Name
SS_SCALE_NAME	String (40)	Sampling Station Scale Name
SS_SCALE_SN	String (40)	Sampling Station Scale Serial Number
SS_MSG	String (60)	Initial Message entered at the start of Sampling
SS_LSP	Float	Sampling Low Setpoint (Actual Value)
SS_LLSP	Float	Sampling Low Low Setpoint (Actual Value)
SS_HSP	Float	Sampling High Setpoint (Actual Value)
SS_HHSP	Float	Sampling High High Setpoint (Actual Value)
SS_REF1	String (40)	Future
SS_REF2	String (40)	Future
SS_UNITS	String (10)	Units of the Weight
SS_LINE_NUMBER	String (20)	Sampling Station Line Number or Name
SSS_DATE	Date	Date at the end of Sampling



SSS_TIME	Time	Time at the end of Sampling
SSS_SAMPLES_DONE	Integer	Samples actually completed
SSS_AVE	Float	Average of the Sample Set
SSS_SD	Float	Standard Deviation of the Sample Set
SSS_MIN	Float	Minimum value of the Sample Set
SSS_MAX	Float	Maximum value of the Sample Set
SSS_COUNTS_L	Integer	Pack counts where the weight was below the Low Setpoint
SSS_COUNTS_LL	Integer	Pack counts where the weight was below the Low Low Setpoint
SSS_COUNTS_H	Integer	Pack counts where the weight was above the High Setpoint
SSS_COUNTS_HH	Integer	Pack counts where the weight was above the High High Setpoint
SSS_MSG_TERMINATION	String (50)	Message entered by the operator when Sampling was prematurely terminated
SSS_MSG_FINAL	String (50)	Message entered by the operator when Sampling is completed
SSS_COUNTS_T1	Integer	Future
SSS_COUNTS_T2	Integer	Future
SSS_AQS_AVE	Integer	Future
COMP_TEST	String (20)	The compliance screening test that was executed. 'AQS' or 'UTML'
COMP_STATUS	String (10)	'Passed' if the compliance screening test was passed, or 'Failed' if the test failed.
COMP_AQS_T1	Integer	If AQS test, then this is the T1 Count
COMP_AQS_T2	Integer	If AQS test, then this is the T2 Count
COMP_AQS_AVE	Float	If AQS test, then this is the AQS Weighted average
COMP_STATUS_AQS_T1	String (10)	If AQS, this is the test result on T1. Either will be 'Passed' or 'Failed'
COMP_STATUS_AQS_T2	String (10)	If AQS, this is the test result on T2. Either will be 'Passed' or 'Failed'
COMP_STATUS_AQS_AVE	String (10)	If AQS, this is the test result on the weighted average. Either will be 'Passed' or 'Failed'
COMP_UTML_95	Integer	If UTML, this is the count below 95% of Nominal weight value
COMP_UTML_AVE	Float	If UTML, this is the average weight. If this value is below the Nominal weight then COMP_UTML_STAUS_AVE would have failed
COMP_STATUS_UTML_95	String (10)	If UTML, this is the test result on the count below the 95% of Nominal Weight. Will be either 'Passed' or 'Failed'.
COMP_TARE_USED	Float	Tare value that was used in the Screening test
MASS_TEST	String (10)	Standard Mass Verification test 'Passed' or 'Failed'. (Use SS_MASSINCL to detect if test was used)
MASS_WEIGHT	String (30)	Standard Mass Weight Used
MASS_ACTUAL	String (20)	Standard Mass Weight measured



		value
MASS_UNITS	String (10)	Standard Mass Units
MASS_ID	Integer	Used to identify the Standard Mass in the Standard Mass Table. (Future links coming)
MASS_SN	String (40)	Standard Mass Serial Number. Typically stored in the Database.
MASS_EXPIRY	Date	The expiry date of the Standard Mass used
MASS_UPPER	Float	The Standard Mass Upper Weight. If the Standard Mass is measured (Actual) above this then the MASS_TEST will be set to 'Failed'
MASS_LOWER	Float	The Standard Mass Lower Weight. If the Standard Mass is measured (Actual) below this then the MASS_TEST will be set to 'Failed'
TT_TEST	String (10)	Tare Test result. Will be set to either 'Passed' or 'Failed'
TT_RANGE	Float	The range of the Tare values in the test
TT_USED	Float	The Tare value used in the Sampling as a result of this test
TT_SUGGESTED	Float	The Tare value suggested as a result of this test
TT_TARE1	Float	1st Tare weight measurement
TT_TARE2	Float	2nd Tare weight measurement
TT_TARE3	Float	3rd Tare weight measurement
TT_TARE4	Float	4th Tare weight measurement
TT_TARE5	Float	5th Tare weight measurement