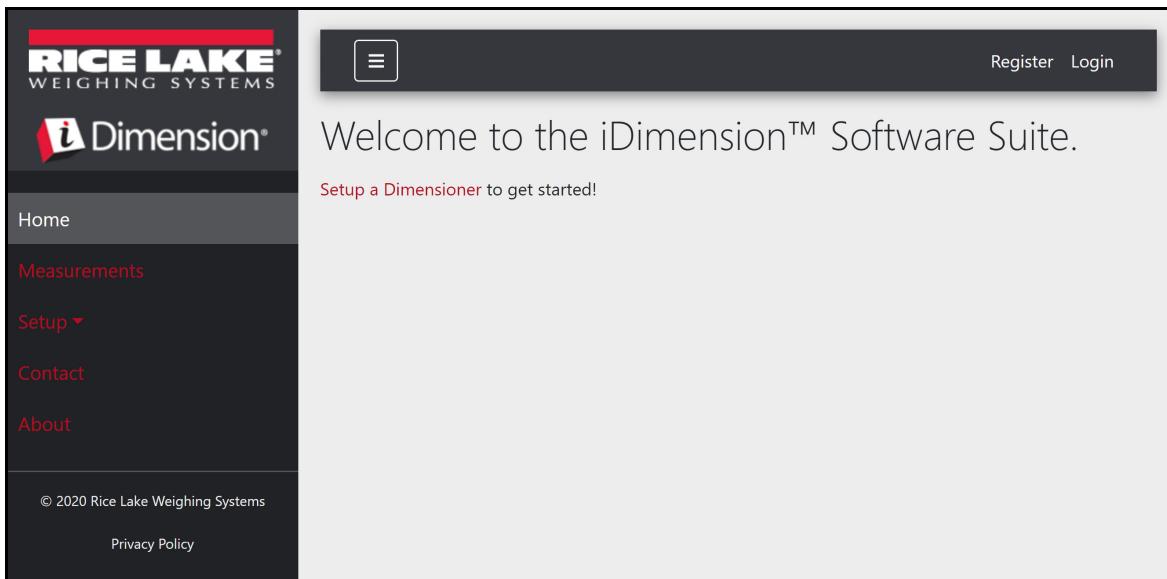


# iDimension® Software Suite

PC Software

## Software Manual



Review Draft 12/18/2020

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# 1.0 Introduction

This manual provides an overview of the iDimension® Software Suite installation and configuration procedures.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at [www.ricelake.com](http://www.ricelake.com)

Warranty information can be found on the website at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)

## Safety Signal Definitions:



**DANGER** *Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.*



**WARNING** *Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.*



**CAUTION** *Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.*



**IMPORTANT** *Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.*

## General Safety



*Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.*



*Failure to heed could result in serious injury or death.*

## 1.1 System Requirements

- Windows 10 build 1607 or newer (64 bit only)
- 2.0 GHz processor or faster
- 250 MB HD Space needed for install
- 8 GB ram or greater
- Ethernet TCP/IP connection to dimensioning devices and optional digital weight indicator(s)
- A supported web browser (Chrome, Microsoft Edge, Firefox, Safari)

## 1.2 Server Installation

Place the disc in the optical drive on the PC and navigate to the server folder and double click 'iDimSS.Installer.exe' in the selected folder. This places all the required prerequisites on the system.

If an error occurs during the installation or database setup, the information is written to a file named 'installog.txt' located in the root folder of the 'C:\' drive.

## 1.3 Post Installation Configuration

After installation is complete, any network firewall on the system needs to be configured to allow the digital weight indicators and the Client application to access to the server application.

Connection Type: TCP

TCP Port: 5000 and 5001

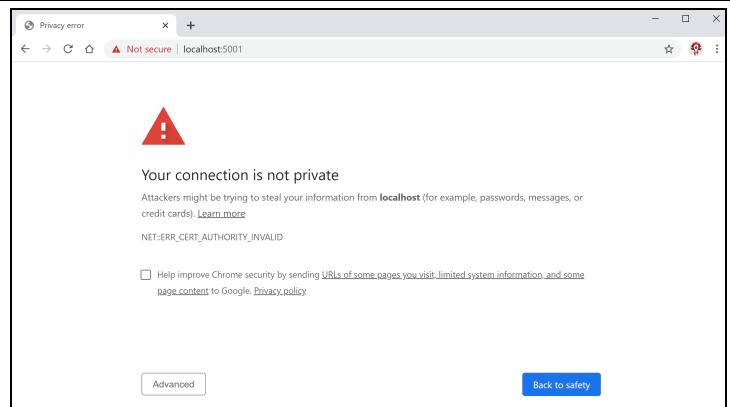
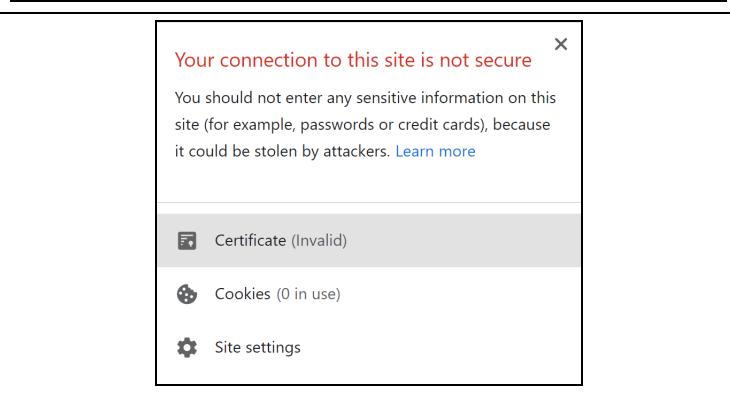
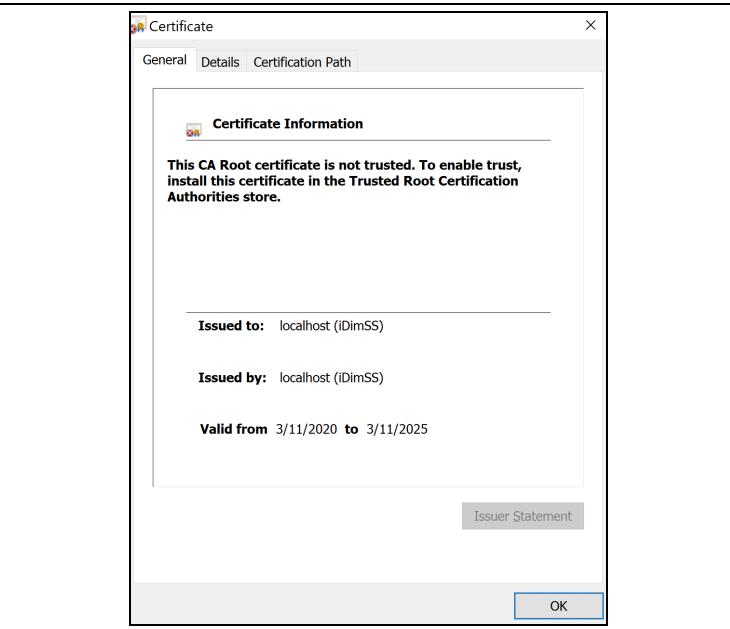
Refer to the Windows help system for directions on configuring the Windows firewall. If the system has a firewall that was included as part of an Anti-Virus package, refer to that software's documentation on opening the required ports.

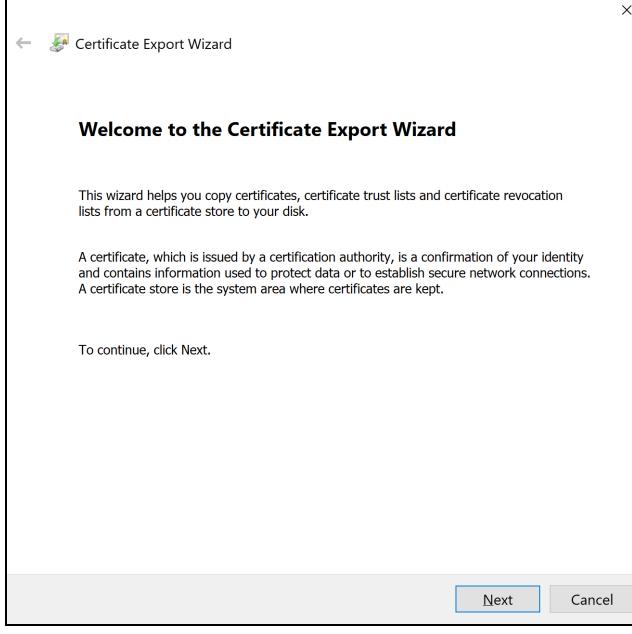
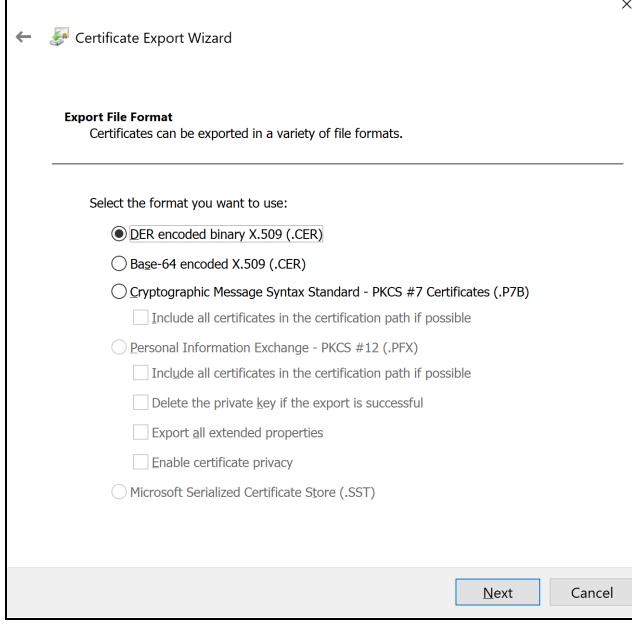
## 2.0 Installation

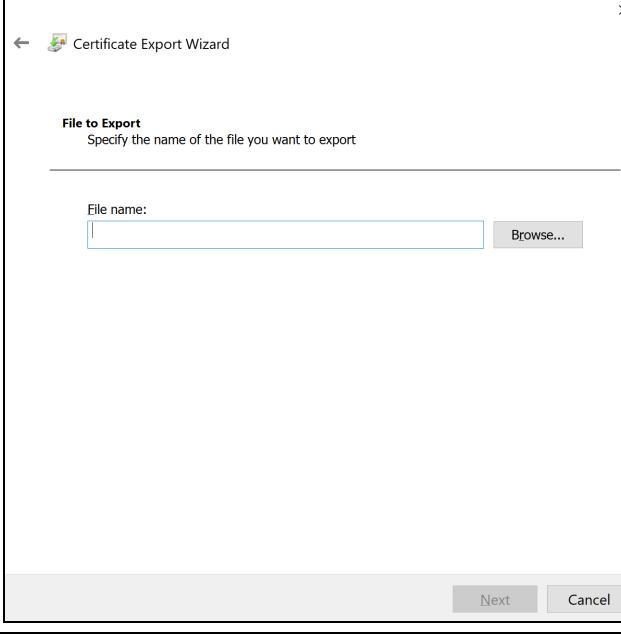
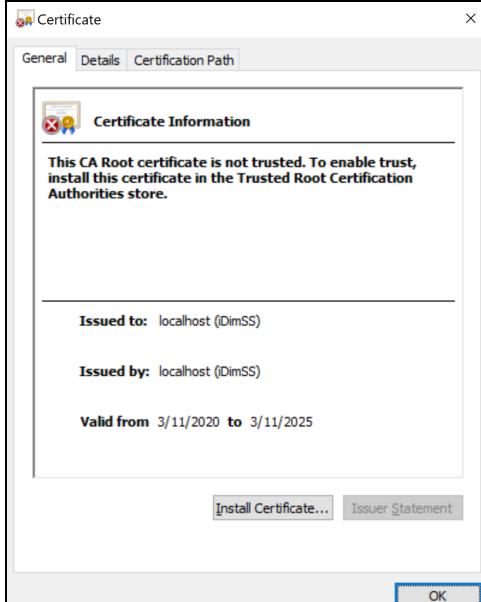
This section provides installation procedures for the iDimension Software Suite.

### 2.1 Initial Browser Navigation

Using a supported web browser, navigate to <https://localhost:5001> on the local machine where the application was installed.

	<p>1. A security warning displays.  <b>Note</b> <i>This example is shown using Google Chrome. Other browsers contain similar methods of display and mechanisms to download the certificate.</i></p>
	<p>2. Click the <b>Not Secure</b> button near the address bar.</p> <p>3. Select the <b>Certificate</b> button.</p>
	<p>4. Verify the <b>Issued To</b> and <b>Issued By</b> fields match as shown.</p> <p>5. Click the <b>Details</b> tab then click <b>Copy to File</b>.</p>

	<p>The <b>Certificate Export Wizard</b> displays.</p> <p>6. Click <b>Next</b>.</p>
	<p>7. Select <b>DER encoded binary X.509</b> then click <b>Next</b>.</p>

	<ol style="list-style-type: none"> <li>8. Click <b>Browse</b> then select your Downloads folder.</li> <li>9. Enter IDIMSS as the filename then click <b>Save</b>.</li> <li>10. Click <b>Next</b>.</li> <li>11. Click <b>Finish</b>. The export wizard saves the certificate to the Download folder.</li> <li>12. Click <b>OK</b> to close the Certificate dialog.</li> </ol>
	<ol style="list-style-type: none"> <li>13. Open Windows File Explorer then navigate to the Downloads folder.</li> <li>14. Double click the IDIMSS.cer file.</li> <li>15. The Certificate details dialog to the left appears.</li> <li>16. Click <b>Install Certificate</b>. The <b>Certificate Import Wizard</b> displays.</li> </ol>

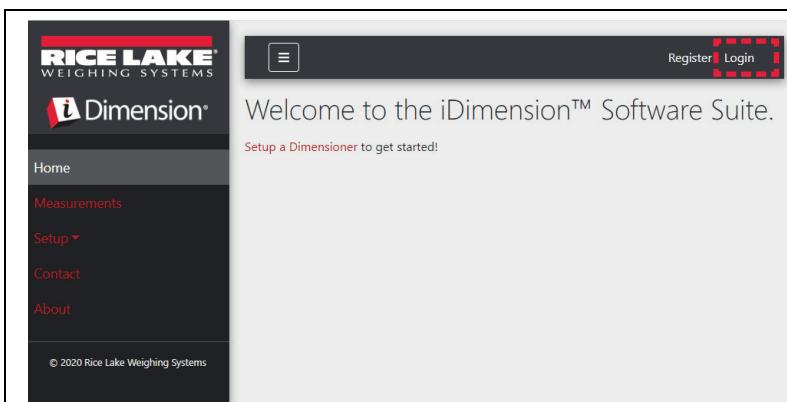
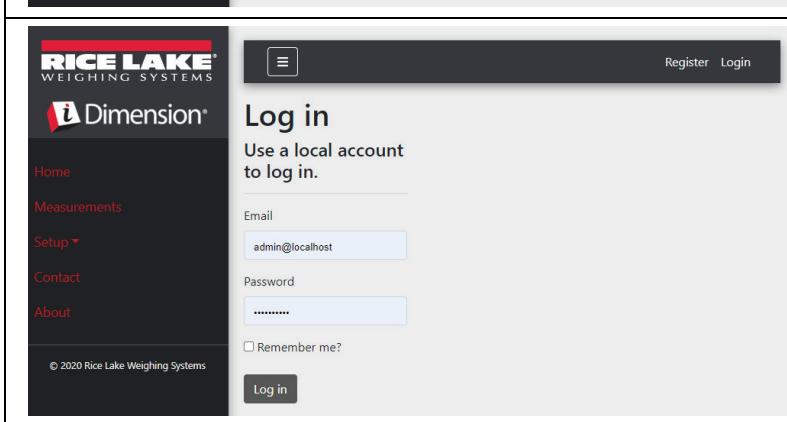
	<p>17. Select <b>Current User</b> then click <b>Next</b>.      18. In the Certificate Store step, select <b>Place all certificates in the following store</b>,</p>
	<p>19. Select <b>Trusted Root Certification Authorities</b> then click <b>OK</b>.      20. Click <b>Next</b>.      21. Click <b>Finish</b>.</p>
	<p>22. The following Security Warning displays.      23. Click <b>Yes</b> to place the certificate in the certificate store. A success dialog displays.</p> <p><b>Note</b> <i>If success dialog does not display, contact your local IT department for assistance.</i></p> <p>24. Close the browser then reopen it. Navigate to <a href="https://localhost:5001">https://localhost:5001</a> then the site displays without the security warnings.</p>

## 3.0 Configuration

### 3.1 Configure Users

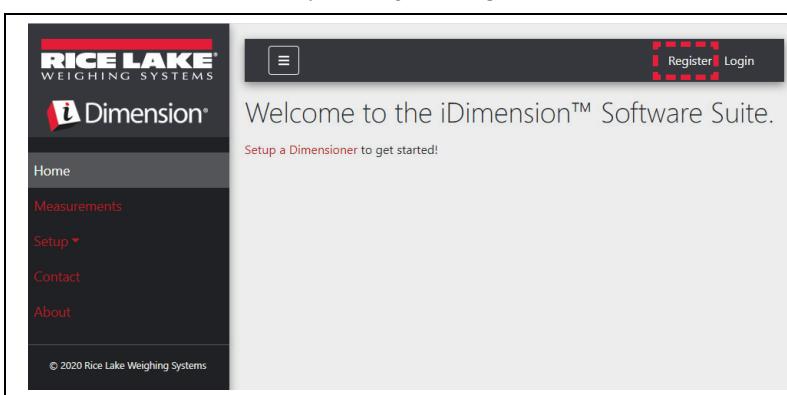
#### 3.1.1 Log to the iDimension SS Administrator Account Login

The iDimension SS system is configured with a default administrator account.

 <p>A screenshot of the iDimension software suite home page. It features a dark header bar with the Rice Lake Weighing Systems logo and the iDimension logo. Below the header is a navigation menu with links for Home, Measurements, Setup, Contact, and About. A copyright notice at the bottom left reads "© 2020 Rice Lake Weighing Systems". On the right side, there's a message "Welcome to the iDimension™ Software Suite." and a link "Setup a Dimensioner to get started!". At the top right of the main content area are "Register" and "Login" buttons, with "Login" being highlighted with a red box.</p>	<ol style="list-style-type: none"> <li>1. Navigate to <a href="https://localhost:5001">https://localhost:5001</a> in an internet browser on the local machine to enter the iDimension SS interface.</li> <li>2. Click <b>Login</b>.</li> </ol>
 <p>A screenshot of the iDimension software suite login page. It features a dark header bar with the Rice Lake Weighing Systems logo and the iDimension logo. Below the header is a "Log in" section with the sub-instruction "Use a local account to log in.". It contains fields for "Email" (with "admin@localhost" entered) and "Password" (with "*****" entered). There's also a "Remember me?" checkbox and a "Log in" button. The "Login" button from the previous screenshot is also highlighted with a red box.</p>	<ol style="list-style-type: none"> <li>3. Enter login information.</li> </ol> <p><b>Note</b> <i>By default, the system creates an administrator user to perform all site operations. This account has the following name and password.</i></p> <p>*Name: admin@localhost *Password: PASS\$word1</p> <p><b>Changing the default password as soon as possible after installation is highly recommend.</b></p>

#### 3.1.2 Create a New User

New users can be created by clicking the **Register** link on the site.

 <p>A screenshot of the iDimension software suite home page, identical to the one in the previous section. It features a dark header bar with the Rice Lake Weighing Systems logo and the iDimension logo. Below the header is a navigation menu with links for Home, Measurements, Setup, Contact, and About. A copyright notice at the bottom left reads "© 2020 Rice Lake Weighing Systems". On the right side, there's a message "Welcome to the iDimension™ Software Suite." and a link "Setup a Dimensioner to get started!". At the top right of the main content area are "Register" and "Login" buttons, with "Register" being highlighted with a red box.</p>	<ol style="list-style-type: none"> <li>1. Click on the <b>Register</b> Link.</li> </ol> <p><b>Note</b> <i>The Register link is only available when no-one is currently logged into the site.</i></p>
--	--

2. Enter login information.

**Note** *The new user has full access to the site until user roles are implemented.*

### 3.1.3 User Management

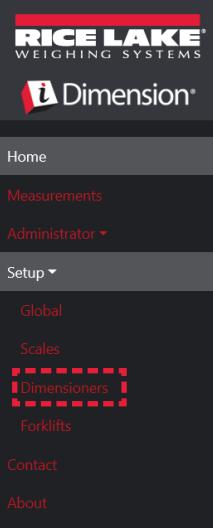
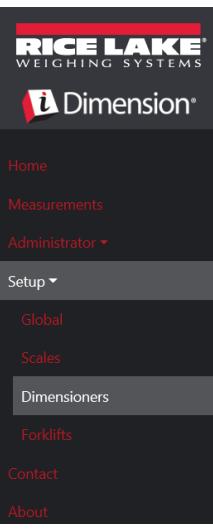
Users are managed from the admin account.

	<ol style="list-style-type: none"> <li>Click the <b>Users</b> menu item to access user management functions.</li> </ol> <p><b>Note</b> <i>This menu item is only available when logged in as an Administrator.</i></p> <ol style="list-style-type: none"> <li>Click <b>Edit</b> or <b>Delete</b> to perform the following functions:</li> </ol>
	<h4>Edit User</h4> <p>Make desired changes to user.</p> <p><b>Email:</b> The user's email address. This field is read only.</p> <p><b>Email Confirmed:</b> set to indicate that the email provided by the user has been confirmed to be valid.</p> <p><b>Role:</b> Set to Administrator or User as needed.</p> <ul style="list-style-type: none"> <li>Click the <b>Save</b> button to commit the changes.</li> <li>Click the <b>Back to List</b> button to return to the main users list.</li> </ul>
	<h4>Delete User</h4> <p>The system asks to confirm the delete operation prior to deleting the user.</p> <ul style="list-style-type: none"> <li>Click the <b>Delete</b> button to proceed.</li> <li>Click <b>Back to List</b> to return to the main user list.</li> </ul>

## 3.2 Dimensioner Setup and Configuration

This section provides steps to set up and configure dimensioners.

### 3.2.1 Creating a New Dimensioner

 <p>Welcome to the iDimension™ Software Suite. Setup a Dimensioner to get started!</p>	<ol style="list-style-type: none"> <li>Click <b>Setup a Dimensioner</b> in the welcome screen or <b>Setup &gt; Dimensioners</b> in the menu to access the dimensioner management functions.</li> </ol>										
 <p>Dimensioners</p> <p>+ Create New</p> <table border="1"> <thead> <tr> <th>Dimensioner name</th> <th>iDimension model</th> <th>Hotspot name</th> <th>Capture definition</th> <th>IP address</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Dimensioner name	iDimension model	Hotspot name	Capture definition	IP address						<ol style="list-style-type: none"> <li>Click the <b>Create New</b> button to add a new dimensioner to the system.</li> <li>Create Dimensioner screen displays (Section 3.2.2 on page 9).</li> </ol>
Dimensioner name	iDimension model	Hotspot name	Capture definition	IP address							

### 3.2.2 Create Dimensioner Dialog Box

Enter new dimensioner information:

Settings	Description
Dimensioner Name	A user-defined name of the dimensioner
IP Address	The IP address of the dimensioner; For example, 192.168.0.1
iDimension model	The model of the dimensioner: iDimension LTL, iDimension PWD, iDimension Plus
Capture Definition	The name of the configured capture definition in the dimensioner; Click the <b>Insert Typical</b> button to insert the most common value
Hotspot Name	The name of the configured hotspot in the dimensioner; Not all dimensioners require this parameter; Click the <b>Insert Typical</b> button to insert the most common value
Camera names use to determine dimensions	A comma delimited list of configured camera names; Click the <b>Insert Typical</b> button to insert the most common value
Process images from these camera names	A comma delimited list of camera names; Any image processing is applied to these cameras only; Click the <b>Insert Typical</b> button to insert the most common value
Combine capture images into a single image	Set to perform image composition on the captured images using the image composition rules
Annotate images with measurement data	Set to apply the configure image annotation rules to the images captured from this dimensioner
Scale is attached to dimensioner	Set to indicate that a scale is directly attached to the dimensioner device
Weight is provided manually	Set to indicate that the weight and units is provided manually during a capture process or provided by the remote computer if triggered via an API call
Remote scale associated with dimensioner	If set, the configured scale is interrogated during the capture operation for its current weight value and units
Use this dimensioner as the system default	If set, the dimensioner is used in cases where a capture operation is triggered without specifying a dimensioner name; The primary use of this is when Cubiscan emulation is enabled
IP Address	The IP address of the dimensioner; For example, 192.168.0.1

### 3.2.3 Dimensioner Configuration and Management

The screenshots show the following pages:

- Dimensions List:** Shows two dimensioners: "Test Dimensioner #1" (iDimension Plus, QVDemo, IP 10.2.58.56) and "Test Dimensioner #2" (iDimension Plus, QVDemo, IP 10.2.58.47). Each has "Edit", "Details", and "Delete" buttons.
- Edit Dimensioner:** A dialog for "LTL". Fields include Dimensioner name (LTL), IP address (10.2.199.14), and a checkbox for "Use this dimensioner as the system default". It also shows iDimension model (iDimension LTL) and Capture definition (QVDemo).
- Dimensioner Details:** Shows the details for "LTL". Fields include Dimensioner name (LTL), IP address (10.2.199.14), and a checkbox for "Use this dimensioner as the system default". It also shows iDimension model (iDimension LTL), Capture definition (QVDemo), and Hotspot name (HS2). A note at the bottom lists cameras used for dimensioning.
- Delete Dimensioner:** A confirmation dialog asking "Are you sure you want to delete this dimensioner?". It lists the dimensioner's details: Dimensioner name (LTL), IP address (10.2.199.14), and a checkbox for "Use this dimensioner as the system default". It also shows iDimension model (iDimension LTL), Capture definition (QVDemo), and Hotspot name (HS2). A note at the bottom lists cameras used for dimensioning.

#### Dimensioner Configuration

- Click the **Setup > Dimensions** link in the menu to access the dimensioner management functions.
  - The view to the left displays.
- Click the **Edit**, **Details**, or **Delete** buttons to perform the following functions:

#### Edit an Existing Dimensioner

- Edit Dimensioner** dialog displays.
- Make the desired changes to dimensioner settings ([Section 3.2.2 on page 9](#)).
  - Click the **Save** button to commit the changes, or
  - Click **Back to List** to return to the main dimensioner list.

#### View an Existing Dimensioner

**Dimensioner Details** dialog displays.

- Click **Edit** button to edit the dimensioner or
- Click **Back to List** to return to the main dimensioner list.

#### Delete a Dimensioner

The system asks to confirm the delete operation prior to deleting the dimensioner.

- Click the **Delete** button to proceed.
- Click **Back to List** to return to the main dimensioner list.

### 3.3 Scale Setup and Configuration

This section provides steps to set up and configure scales.

#### 3.3.1 Create a New Scale

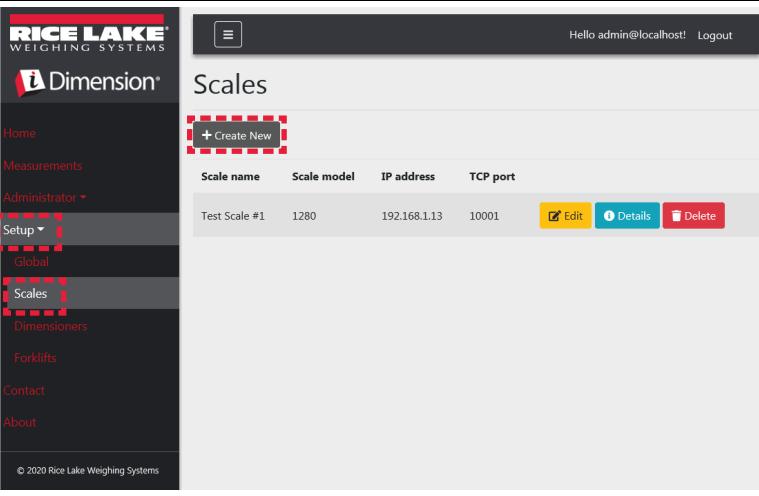
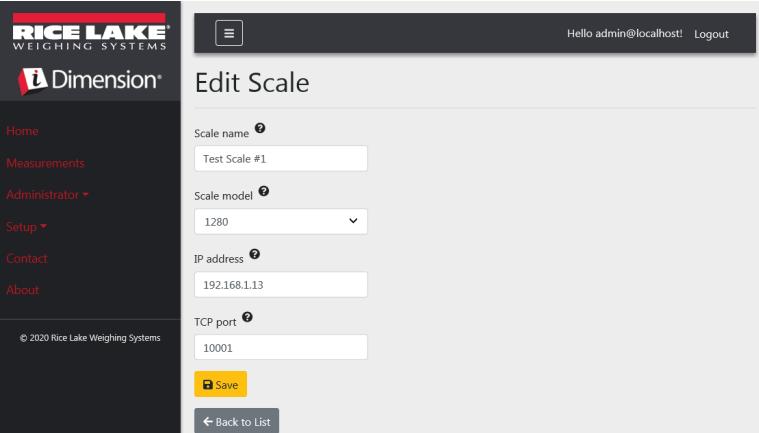
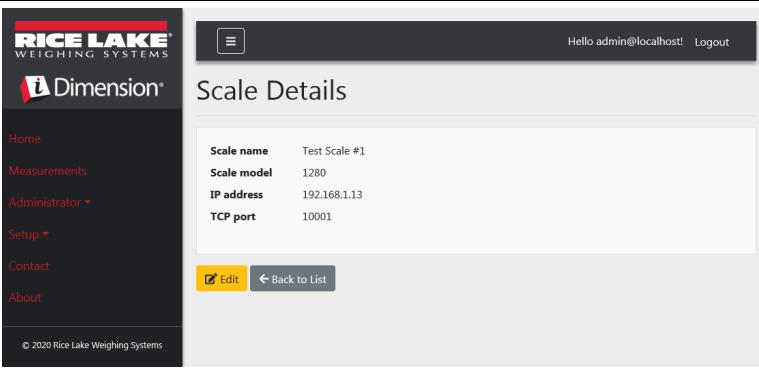
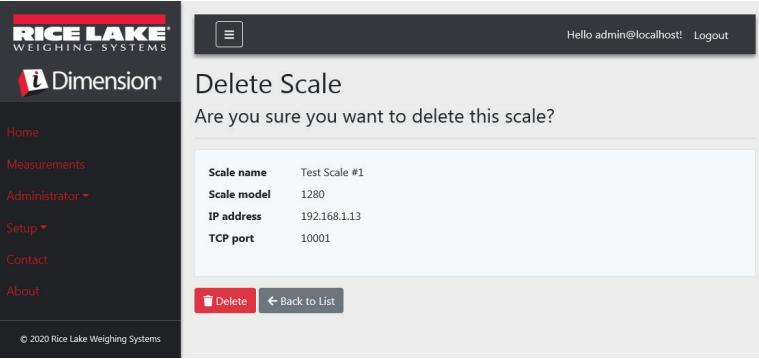
1. Click **Setup > Scales** in the menu to access the scale management functions.  
 2. Click the **Create New** button to add a new dimensioner to the system.  
 3. **Create Scale** dialog box displays (Section 3.3.2).

#### 3.3.2 Create Scale Dialog Box

Enter new scale information:

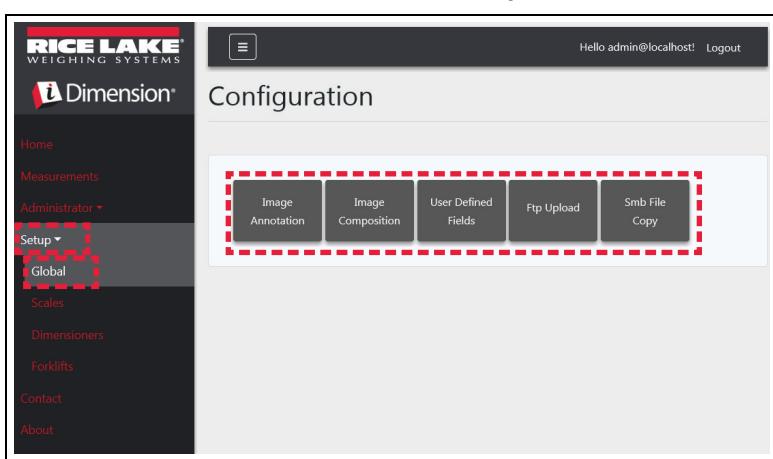
Settings	Description
Scale Name	A user-defined name of the scale
Scale model	The model of the scale: 1280, 880, 680
IP Address	The IP address of the dimensioner; For example, 192.168.0.1
TCP Port	The TCP port used by indicator attached to the scale; Typically 10001

### 3.3.3 Scale Configuration and Management

	<h4>Scale Configuration</h4> <ol style="list-style-type: none"> <li>Click the <b>Setup &gt; Scales</b> link in the menu to access the scale management functions.             <ul style="list-style-type: none"> <li>The <b>Scales</b> view to the left displays.</li> </ul> </li> <li>Click the <b>Edit</b>, <b>Details</b>, or <b>Delete</b> buttons to perform the following functions:</li> </ol>
	<h4>Edit an Existing Scale</h4> <p><b>Edit Scale</b> dialog displays.</p> <ol style="list-style-type: none"> <li>Make the desired changes.</li> <li>Click the <b>Save</b> button to commit the changes.             <ul style="list-style-type: none"> <li>Click the <b>Back to List</b> button to return to the <b>Scales</b> view.</li> </ul> </li> </ol>
	<h4>View Details of an Existing Scale</h4> <p><b>Scale Details</b> dialog displays.</p> <ul style="list-style-type: none"> <li>Click <b>Edit</b> button to edit the scale. <b>Edit Scale</b> dialog will display, or</li> <li>Click <b>Back to List</b> to return to the <b>Scales</b> view.</li> </ul>
	<h4>Delete a Scale</h4> <p><b>Delete Scale</b> dialog displays.</p> <p>The system asks to confirm the delete operation prior to deleting the scale.</p> <ul style="list-style-type: none"> <li>Click the <b>Delete</b> button to proceed.</li> <li>Click <b>Back to List</b> to return to the <b>Scales</b> view.</li> </ul>

## 3.4 Global Setup and Configuration

This section provides steps to set up and configure dimensioner data output.

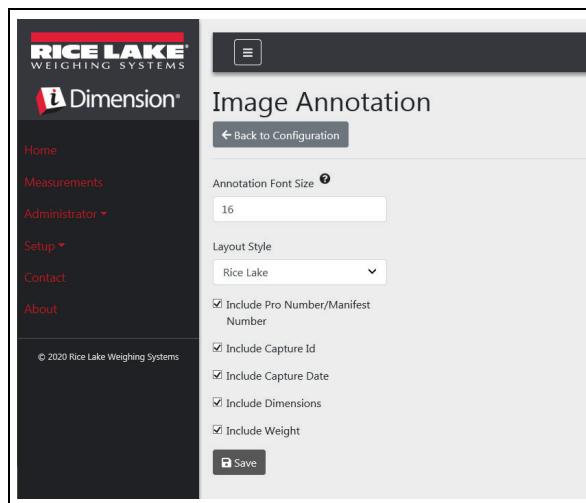


The screenshot shows the iDimension software interface. On the left is a dark sidebar with white text and icons. The 'Setup' icon is highlighted with a red box. Under 'Setup', the 'Global' option is also highlighted with a red box. The main area is titled 'Configuration'. At the top right, it says 'Hello admin@localhost! Logout'. Below the title are five buttons: 'Image Annotation', 'Image Composition', 'User Defined Fields', 'Ftp Upload', and 'Smb File Copy'. The first two buttons, 'Image Annotation' and 'Image Composition', are enclosed in a red dashed box.

1. Click **Setup > Global** in the menu to access the system wide settings.
2. Click on the buttons for the following menus:
  - Image Annotation ([Section 3.4.1](#))
  - Image Composition ([Section 3.4.2](#))
  - User Defined Fields ([Section 3.4.3 on page 14](#))
  - Ftp Upload ([Section 3.4.4 on page 14](#))
  - Smb File Copy ([Section 3.4.5 on page 15](#))

### 3.4.1 Image Annotation

These parameters control how Image Annotation is performed.

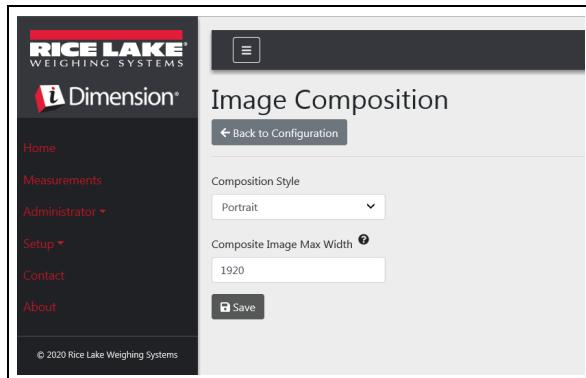


The screenshot shows the 'Image Annotation' configuration screen. The left sidebar has a red 'Save' button at the bottom. The main area has a title 'Image Annotation' with a back button. It includes fields for 'Annotation Font Size' (set to 16), 'Layout Style' (set to 'Rice Lake'), and several checkboxes for including Pro Number/Manifest Number, Capture Id, Capture Date, Dimensions, and Weight. A 'Save' button is at the bottom.

Settings	Description
Annotation Font Size	Size of the font used to annotate the image; Allowed values are between 10 and 32
Layout Style	Rice Lake or Cubiscan
Include Pro Number/Manifest Number	Check box
Include Capture Id	Check box
Include Capture Date	Check box
Include Dimensions	Check box
Include Weight	Check box

### 3.4.2 Image Composition

These parameters control how Image Composition is performed.



The screenshot shows the 'Image Composition' configuration screen. The left sidebar has a red 'Save' button at the bottom. The main area has a title 'Image Composition' with a back button. It includes a dropdown for 'Composition Style' (set to 'Portrait') and a field for 'Composite Image Max Width' (set to 1920). A 'Save' button is at the bottom.

Settings	Description
Composition Style	Portrait
Composite Image Max Width	Maximum width of the composite image; Allowed values are between 800 and 3000

### 3.4.3 User Defined Fields

These parameters allow for additional data to be collected along with the measurement data. If enabled, the field is added to the Capture view to allow the operator to add additional data that is saved along with the measurement data. Any additional data is included with data export and data transfers.

Settings	Description
User Field Label #1-3	Enter a name or label for up to three additional fields. To disable a field; leave the label blank

### 3.4.4 FTP Upload

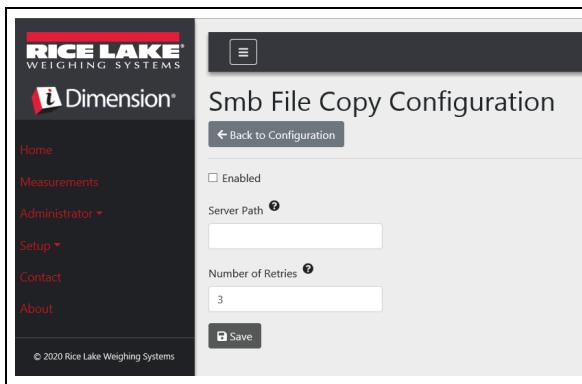
These parameters control how FTP File Transfers are performed. This optional process will use FTP to send image and measurement data to an FTP server on a separate system.

Settings	Description
FTP Upload Enabled	Set this to enable FTP upload of data
FTP Server Address	The name or IP address of the target server
Enable SSL	Set to enable secure socket layer encryption for the connection
User Name	The username used for account authentication on the server; This is typically an email address
Password	the password used for account authentication
Use Anonymous Login	Set to indicate that the server allows anonymous/unauthenticated connections; When using Anonymous Logins, no password is necessary
Server Path	The destination folder path on the server where the uploaded files are placed; This can be left blank
Data File Type	The type of file used to format the measurement data; Available types are: Comma Separated Value (CSV), JavaScript Object Notation (JSON), Extensible Markup Language (XML), and Tab Delimited Text (TXT)

### 3.4.5 SMB File Copy (Windows Only)

These parameters control how Server Message Block (SMB) file operations are performed. This optional process will use SMB to send image and measurement data to separate Windows system on the network.

Additional configuration is necessary to enable this feature.



Settings	Description
Enabled	Set to enable SMB file operations
Server Path	The destination server and folder path where the files are placed; This is required and must use the Universal Naming Convention (UNC); For example: <a href="\\servername\\public\\measurements">\\servername\\public\\measurements</a>
Number of Retries	The number of times to retry the file copy in the event of a failure



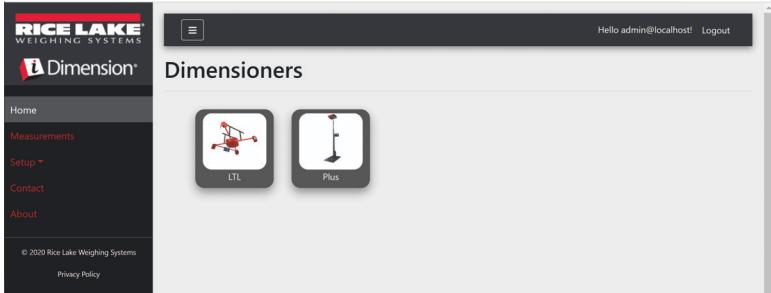
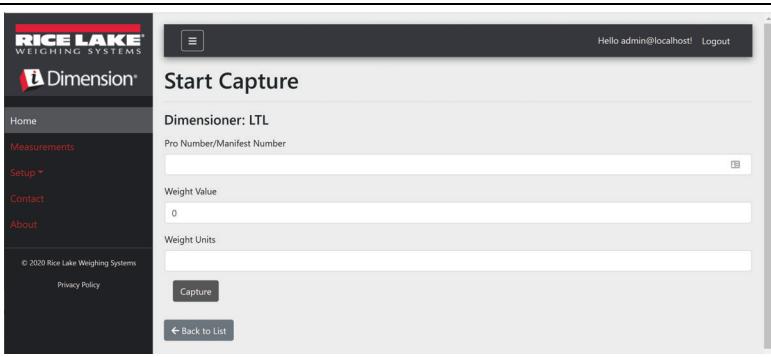
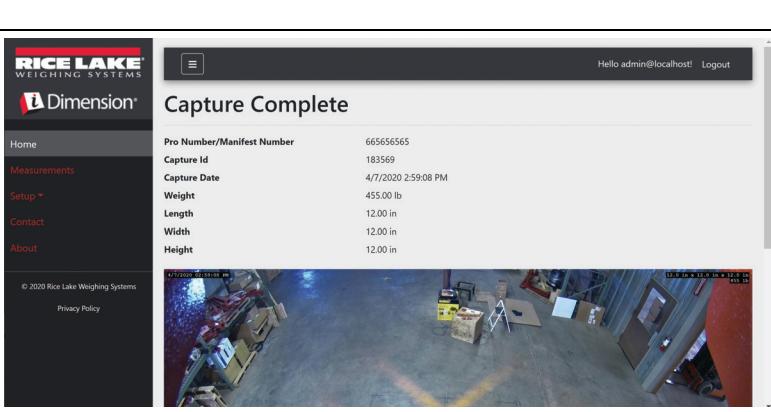
#### Additional Configuration Required

The iDimension SS application is installed as a standard Windows Service. When using SMB file copy operations, it is necessary to reconfigure the Log On properties of the service. Typically, the service is setup to 'Log On' as a Local System account. Using this feature require that a Windows domain account is used for the service. The domain account must be configured with read/write permissions to the server destination folder. See your local IT administrator for additional details on this configuration.

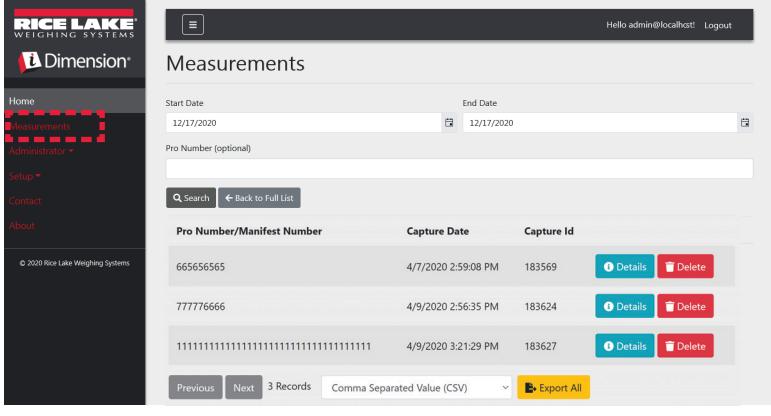
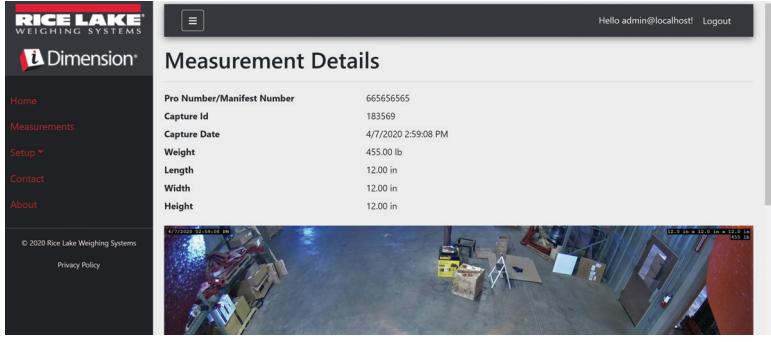
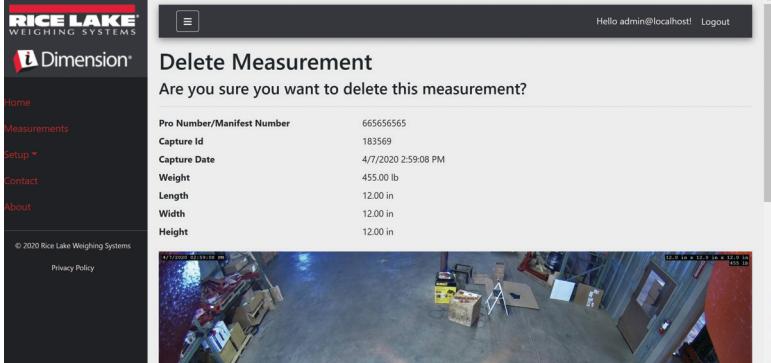
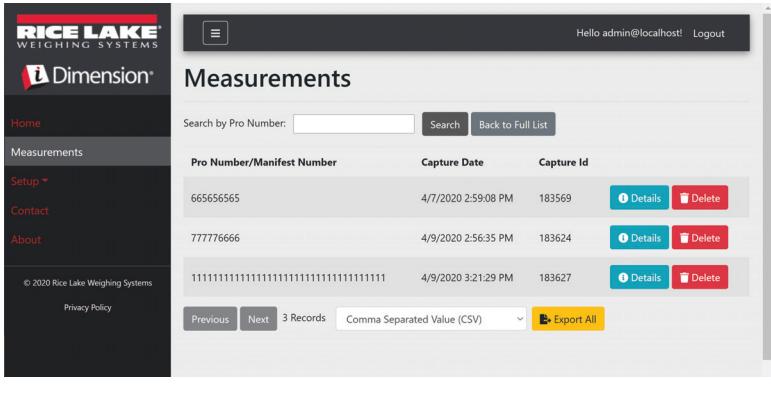
## 4.0 Operation

### 4.1 Capture Measurement Data

The Home view shows all configured dimensioners.

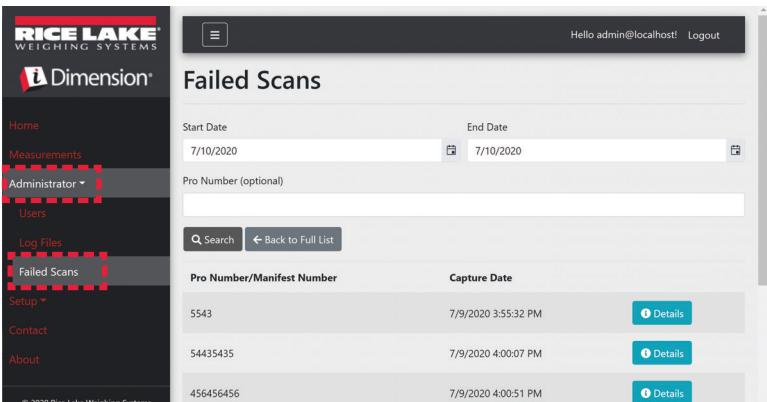
	<p>To trigger a capture process on a specific dimensioner, click the icon representing the device. The view for the dimensioner displays.</p> <ol style="list-style-type: none"> <li>Click the icon representing the specific dimensioner to trigger a capture process.           <ul style="list-style-type: none"> <li>The Start Capture view for the dimensioner displays.</li> </ul> </li> </ol>														
	<ol style="list-style-type: none"> <li>Enter the required data then click the <b>Capture</b> button.</li> <li>The dimensioner triggers then the result is displayed.           <ul style="list-style-type: none"> <li>If an error occurs, a view listing the error information displays.</li> <li>If the dimensioner is configured to manually enter weight, the fields display on this view. If configured for an associated scale or attached scale, these fields are not present.</li> </ul> </li> </ol>														
 <table border="1"> <thead> <tr> <th>Pro Number/Manifest Number</th> <th>665656565</th> </tr> </thead> <tbody> <tr> <td>Capture Id</td> <td>183569</td> </tr> <tr> <td>Capture Date</td> <td>4/7/2020 2:59:08 PM</td> </tr> <tr> <td>Weight</td> <td>455.00 lb</td> </tr> <tr> <td>Length</td> <td>12.00 in</td> </tr> <tr> <td>Width</td> <td>12.00 in</td> </tr> <tr> <td>Height</td> <td>12.00 in</td> </tr> </tbody> </table>	Pro Number/Manifest Number	665656565	Capture Id	183569	Capture Date	4/7/2020 2:59:08 PM	Weight	455.00 lb	Length	12.00 in	Width	12.00 in	Height	12.00 in	<ol style="list-style-type: none"> <li><b>Capture Complete</b> view displays measurement data.           <ul style="list-style-type: none"> <li>If image capture is configured, image is displayed below measurement data.</li> <li>If configured, the FTP File Transfer and/or SMB file copy operations takes place after the Measurement Capture operation is successfully completed.</li> </ul> </li> <li>Click the <b>Back to List</b> to return to configured dimensioners and to perform further capture operations.</li> </ol>
Pro Number/Manifest Number	665656565														
Capture Id	183569														
Capture Date	4/7/2020 2:59:08 PM														
Weight	455.00 lb														
Length	12.00 in														
Width	12.00 in														
Height	12.00 in														

## 4.2 Manage Measurement Data

	<ol style="list-style-type: none"> <li>Click the <b>Measurements</b> button in the menu to access the Measurement management functions. The following window appears</li> <li>Use the search function to filter the list of measurement.</li> <li>Enter a partial pro/manifest number, then click the <b>Search</b> button to query the database for matching measurements. <ul style="list-style-type: none"> <li>The search results display in the table.</li> <li>The table shows a maximum of 20 measurements. Click the <b>Next</b> (or <b>Previous</b>) button to navigate to additional pages.</li> </ul> </li> <li>Click the <b>Details</b> or <b>Delete</b> buttons perform the following functions:</li> </ol>
	<h3>Viewing a Measurement</h3> <p>Click the <b>Details</b> button in the table to view the measurement data.</p> <ul style="list-style-type: none"> <li>The view shown is identical to the Capture Complete view.</li> </ul>
	<h3>Deleting a Measurement</h3> <ol style="list-style-type: none"> <li>Click the <b>Delete</b> button in the table to remove the associated measurement from the system. <ul style="list-style-type: none"> <li>The system asks to confirm the delete operation prior to deleting the measurement. Click the <b>Delete</b> button to proceed.</li> </ul> </li> </ol>
	<h3>Export Measurements</h3> <p>To export a list of all measurements to a file:</p> <ol style="list-style-type: none"> <li>Select the desired file format: <ul style="list-style-type: none"> <li>Comma Separated Value (CSV)</li> <li>JavaScript Object Notation (JSON)</li> <li>Extensible Markup Language (XML)</li> <li>Tab Delimited Text (TXT)</li> </ul> </li> <li>Click the <b>Export All</b> button. <ul style="list-style-type: none"> <li>The system generates the file then the browser downloads and saves it to the user's default download location.</li> </ul> </li> </ol>

## 5.0 Administration

### 5.1 View Failed Scan Data



Click **Administrator > Failed Scans** to access the failed scan management functions. **Failed Scans** dialog displays

**Search for failed scans** — Use the search function to filter the list of failed scans.

1. Enter a partial pro/manifest number.
2. Click the **Search** button to query the database for matching failed scans. The search results display in the table.

**Note** *The table shows a maximum of 20 failed scans. Click the Next (or Previous) button to navigate to additional pages.*



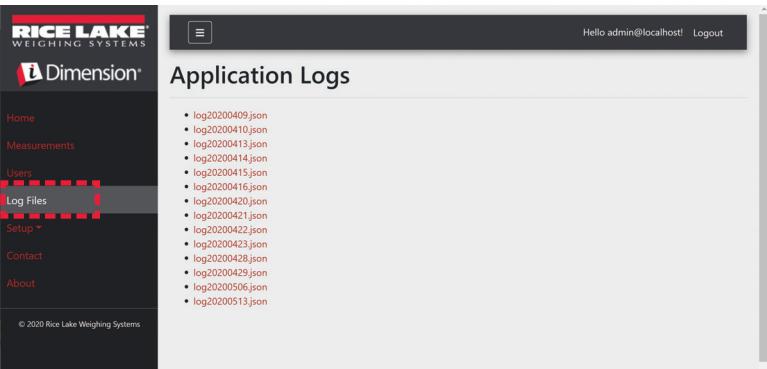
**View a failed scan** — Click the **Details** button in the table to view the failed scan data.

**Note** *This view shows data related to the failed scan as well as any images available from the system cameras.*

**View failed scan details** — Click the **Show Device Status Message** button to view the actual messages received from the dimensioner.

### 5.2 Access to Log File

When the user is logged in with an Administrator role, the Log Files menu item displays in the main menu.



**Click Log Files to display Application Logs.**

Click a link to show the log files that the system has created.

**Note** *The log file is downloaded to the local computer for analysis.*

## 5.3 System Configuration

Low level system configuration is typically done at the time of installation as such, there are no views to configure these parameters.

These parameters are configured by editing the appsettings.json file using a text editor. This file is located in the application installation folder. This is typically "C:\Program Files\Rice Lake Weighing Systems\DimSS\" unless this was changed during application installation.

Using a text editor such as Notepad (executing as an Administrator) open the appsettings.json file. Make changes as needed and save the file. Restart the computer for the changes to take effect.

### 5.3.1 Measurement Storage

To enable or disable measurement storage, locate the following section in the appsettings.json file:

```
"IDIMSS": {  
    "MeasurementStorage": true,  
},
```



**Note** Set the value for MeasurementStorage to 'true' or 'false' as needed.

### 5.3.2 Measurement Auto-Removal

To save space on the Windows computer running the application, automatic pruning of measurement data can be enabled or disabled. Locate the following section in the appsettings.json file.

```
"IDIMSS": {  
    "EnableMeasurementRecordAutoRemoval": true,  
    "MaximumMeasurementRecords": 500,  
    "RemovalPercentage": 50.0  
},
```

Command	Description
EnableMeasurementRecordAutoRemoval	Set to 'true' or 'false' as needed
MaximumMeasurementRecords	Set to an integer value; This must be determined based on the drive space available on the computer running the application; Care must be given when determining the maximum value based on the number and file size of the images stored with the measurement data; A good rule of thumb would be to assume an image size of 350-400 kilobytes of storage needed for each image stored with a measurement; The default value is 500
RemovalPercentage	a real/decimal value. Set between 0 and 100; The percentage of images removed when the count of stored measurements exceeds the maximum allowed; The default value is 50

Table 5-1. Measurement Auto-Renewal Configuration Commands

### 5.3.3 Email

Setup the email server options to enable account confirmation, account recovery, and other email related features.

```
"EmailOptions": {
    "MailServer": "",
    "MailPort": 587,
    "SenderName": "",
    "Sender": "",
    "Password": "",
    "EnableSsl": true
}
```

Command	Description
MailServer	The name or IP address of the SMTP email server; This information can be obtained from the mail provider or your IT department; Leave blank to disable email functionality
MailPort	The TCP port used by the mail server; This information can be obtained from the mail provider or your IT department
SenderName	This is the friendly/display name of the sender
Sender	This is the account name used for authentication on the email server; This is typically an email address
Password	The password used for the account
EnableSsl	Set to 'true' or 'false' to enable/disable secure sockets layer encryption when authenticating and sending email messages; This information can be obtained from the mail provider or your IT department; The default value is 'true'

Table 5-2. Email Configuration Commands

### 5.3.4 Cubiscan Emulation

Setup the Cubiscan emulation options to enable external systems to trigger capture operations via the Cubiscan request/response protocol.

```
"CubiscanOptions": {
    "Enabled": true,
    "TcpPort": 5002,
    "MaxConnections": 1,
    "CloseAfterProtocolResponse": true
},
```

Command	Description
Enabled	Set to 'true' or 'false' as needed; The default value is 'false'
TcpPort	The port used by the application to listen for incoming connections and requests; The default value is 5002
MaxConnections	The maximum number of concurrent external connections; The default value is 1
CloseAfterProtocolResponse	Set to 'true' to cause the application to immediately close the connection to the external system after sending the response; This immediately frees the application to accept a new request; The default value is 'true'

Table 5-3. Cubiscan Emulation Configuration Commands

## 5.4 Enable Remote Forklift Data Support

Setup the remote forklift data support to allow the application to query a remote system running the iDimension SS Forklift Data Management application for forklift data. This allows for centralized forklift data management.

```
"ForkliftOptions": {
    "EnableRemoteForkliftApiLink": false,
    "RemoteForkliftApiAddress": "https://localhost:5051/",
    "MaxCacheTimeoutHours": 24,
    "CacheTimeoutHours": 8,
    "MaxCacheSize": 100
},
```

Command	Description
EnableRemoteForkliftApiLink	Set to 'true' or 'false' as needed; The default value is 'false'; When set to 'true', the local forklift views are hidden and all data management functions are done at the remote system
RemoteForkliftApiAddress	Set to the URL of the remote system; This would typically be similar to "https://RemoteComputerNameOrIpAddress:5051/"
MaxCacheTimeoutHours	The maximum amount of time that an item is held in the cache regardless if it was recently accessed
CacheTimeoutHours	The time an item is held in the cache; If the item is accessed, the timeout is reset
MaxCacheSize	The maximum number of items (forklift items) that are held in the cache; If additional items are added, older items are purged

Table 5-4. Enable Remote Forklift Data Support Configuration Commands

## 5.5 Computer to Computer Communications

### 5.5.1 HTTP REST

The application supports access to the system data via a standard REST API. This API can be explored using a web browser and navigating to the following URL: <https://{address of machine where service is installed}:5001/swagger/>

This site shows all available end points, commands, and data structures.

### 5.5.2 REST API Authentication

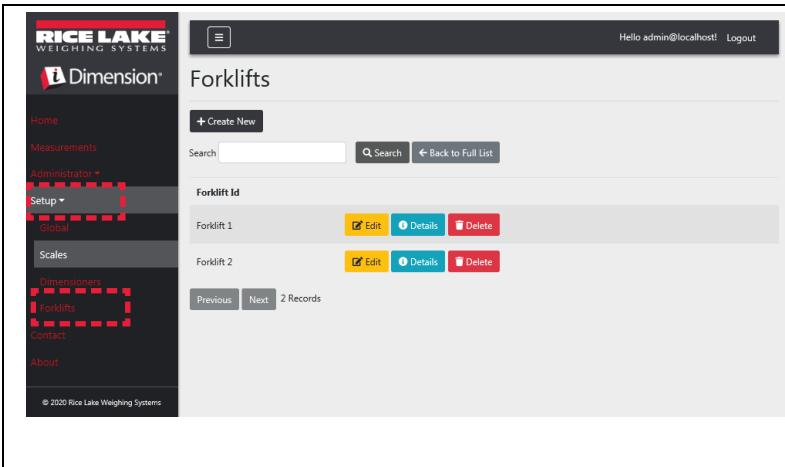
Authentication is handled using OAuth2 and bearer tokens as shown in the API declaration.



## 6.0 Appendix

### 6.1 Forklift Setup and Configuration

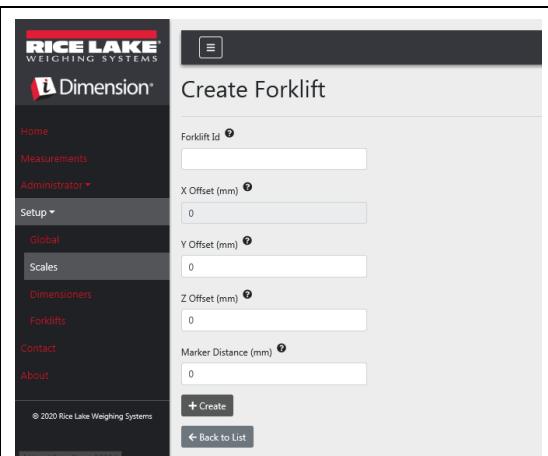
This section provides steps to set up and configure forklifts..



Click the Setup > Forklifts link in the menu to access the forklift management functions.

- The view to the left displays
- Click **Create New** button to add new forklift to the system. ([Section 6.1.1 on page 22](#))
- Click **Edit**, **Details**, or **Delete** buttons to perform functions in [Section 6.1.2 on page 23](#).

#### 6.1.1 Create a New Forklift



Settings	Description
Forklift Id	A user-defined identifier for the forklift
X Offset	The difference from the centerline of the carriage to the centerline of the markers in millimeters; This is a read-only field
Y Offset	The distance from the heel of the forks to the center of the markers in millimeters; Must be negative value
Z Offset	The distance between the top of the forks to the top of the markers in millimeters; Must be a positive value
Marker Distance	The distance between the center of the markers in millimeters; Must be a positive value

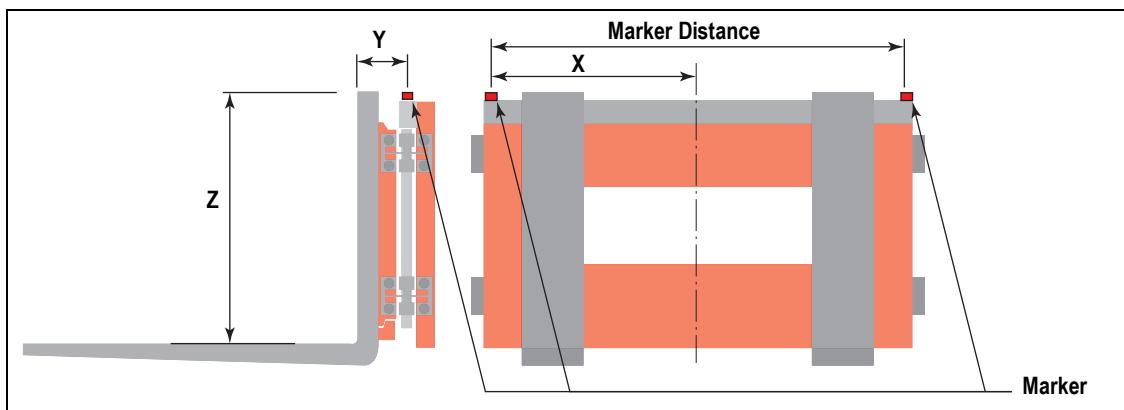
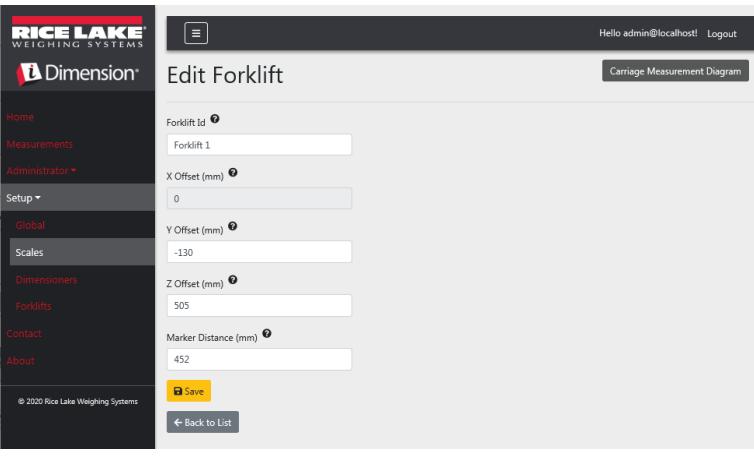
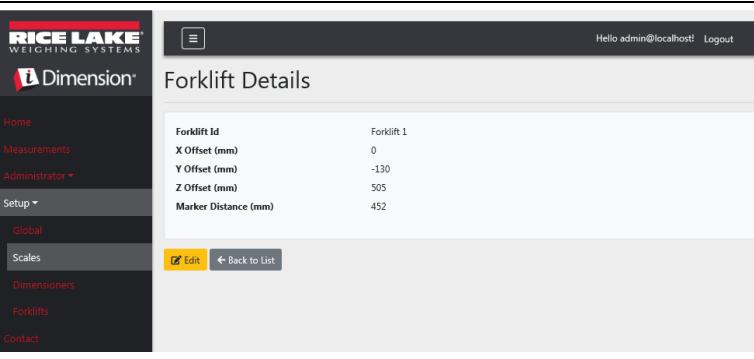
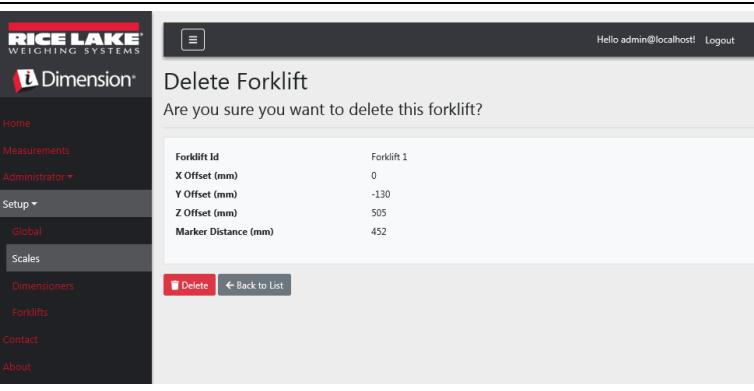


Figure 6-1. Carriage Measurement Diagramv

## 6.1.2 Forklift Configuration and Management

	<h3>Edit an Existing Forklift</h3> <p><b>Edit Forklift</b> dialog displays.</p> <p>Make the desired changes (Section 6.1.1 on page 22)</p> <ul style="list-style-type: none"> <li>Click the <b>Save</b> button to commit the changes, or</li> <li>Click the <b>Back to List</b> button to return to the main forklift list.</li> </ul>
	<h3>View an Existing Forklift</h3> <p><b>Forklift Details</b> dialog displays.</p> <ol style="list-style-type: none"> <li>Click the <b>Details</b> button in the table to view the associated forklift.</li> <li>Click <b>Edit</b> button to edit the forklift or <b>Back to List</b> to return to the main forklift list.</li> </ol>
	<h3>Delete a Forklift</h3> <p><b>Delete Forklift</b> dialog displays.</p> <p>The system asks to confirm the delete operation prior to deleting the forklift.</p> <ul style="list-style-type: none"> <li>Click the <b>Delete</b> button to proceed.</li> <li>Click <b>Back to List</b> to return to the <b>Forklifts</b> view.</li> </ul>

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iDimension Software Suite

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