Fracture Reduction and Deformity Correction Software

www.spatialframe.com
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TAYLOR SPATIAL FRAME External Fixator Software License

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My User Name: _______________________
My Password: _______________________
My Email Address: ___________________
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Introduction

The Web Based TAYLOR SPATIAL FRAME External Fixator Software is intended to aid the surgeon in his/her use of the TAYLOR SPATIAL FRAME External Fixator product. The TAYLOR SPATIAL FRAME system is used to correct post traumatic or congenital skeletal deformity. There are three possible modes of application: Chronic, Residual, and Total Residual.

In the **Chronic mode**, radiographic measurements are used in conjunction with the computer software to provide 6 strut settings that cause the TAYLOR SPATIAL FRAME to mimic the deformity. The frame is then surgically attached to the patient. The patient then adjusts the struts back to their neutral position based on a prescription for strut adjustment. The software calculates this prescription.

In the **Residual mode**, radiographic measurements are used in conjunction with the computer software to provide 6 strut settings that cause the TAYLOR SPATIAL FRAME to mirror the deformity. This requires that a neutral frame be surgically attached to the patient prior to the strut length calculation. The patient then adjusts the struts from the neutral position to the calculated strut lengths based on a prescription for strut adjustment. The software calculates this prescription.

The **Total Residual mode** is similar to the Residual mode except that an initial neutral frame application is not necessary. This case is termed the “crooked frame on crooked bone.” Radiographic measurements and initial strut lengths are used in conjunction with the computer software to calculate final strut lengths. The patient then adjusts the struts from the initial position to the calculated final strut lengths based on a prescription for strut adjustment. When the frame reaches these final strut lengths the deformity is corrected. The software calculates this prescription.

**Computer System Requirements**

**Recommended Browser and Display Settings:** In order to accommodate the large quantity of information, the detailed graphical images and the proper sequencing of the correction methods, each screen of the TAYLOR SPATIAL FRAME Web Application has been designed to provide an efficient user interface. To ensure you the best possible experience with this site, we suggest the following display and browser settings.

**Display Settings**
Screen resolution of 1024 x 768 or higher.

**Supported Browsers**
Netscape Navigator/Communicator 4.7 or higher.  
Microsoft Internet Explorer 5.5 or higher.

**Browser Settings**
Must support 128-bit SSL encryption.  
JavaScript enabled.  
Cookies enabled.

**Internet Connection**
A high-speed cable or DSL connection is recommended.
TAYLOR SPATIAL FRAME Image Nomenclature

Anterior Marker, Proximal Fragment, 20mm cube

Master Tab Marker

Origin (if Proximal Fragment is reference)

Struts

Distal Ring

Distal Fragment (the color green indicates that this is the moving fragment)

Proximal Fragment (the color blue indicates that this is the reference fragment)

Proximal Ring

Corresponding Point (if Proximal Fragment is reference)

Anterior Marker, Distal Fragment, 20mm sphere
Login Page

Obtaining a Password
All aspects of the TAYLOR SPATIAL FRAME software are handled electronically from upgrades to requesting and setting up passwords. Passwords are requested by accessing the login page at http://www.spatialframe.com

The following popup box will appear

Type your information and make sure your email address is perfect to the letter.

You can also provide additional information in the Notes field.

Click Submit and your new password will be emailed to you usually within one business day.
You will receive an email at your registered address. The message will contain both your user name and password. At this point, you are ready to login and begin using the TAYLOR SPATIAL FRAME web-based software.

Logging Into the Site
You can access the TAYLOR SPATIAL FRAME software using any computer connected to the Internet from anywhere in the world. Simply type http://www.spatialframe.com into the address window. The address window is located at the top of most Internet web browsers. Then press enter on the computer keyboard. Your user name and password are assigned to you electronically by Smith & Nephew.

Click on the hyperlink to go to the website.

Your User Name and Password are sent to the email address you used when you registered.

Click on the User Name input field and type your user name.

Tab to the Password input field and type your password.

Enter or click Login to log in.

If you forget your password, click here or see the following page.
Forgotten Password

If you forget your password, you can have it restored electronically. The following procedure will result in a new password being sent to you immediately at your registered email address:

If you forget your password, click here.

This popup box will appear.

Enter your User Name or your Registered Email Address.

Click Submit to send your request.
Changing Your Password

The first time you log on using your initial password, you will be prompted to create your own unique password. For instructions on additional changes to your account information, please see "Changing the User Profile" on page 30.
Site Navigation

Browser Control Bar controls how the page appears on the monitor and the print functions.

The Browser Window

Site Navigation Tabs appear in the header at the top of the browser window. Click on a tab to access the information stored within it.

Site Utilities are secondary features that appear within the site header of the top of the browser window. Click on the name of the utility to access it.

Website address window

Click the print icon to print any page at any given time. This will print the page exactly as it appears on the monitor.

Printing is a function of your browser. Click the print icon to print the current page. This will need to be done separately for each page you wish to print.

Browser window
Data Entry Guidelines

All parameters should be entered with both a magnitude and a direction.

Where distance measurements are required, those numbers should be entered in millimeters, not centimeters.

The software will provide a prescription to correct the exact deformity you describe. Therefore, it is important to enter your data as accurately as possible.

All data must be entered sequentially from left to right beginning with the “Case Info” sub tab.

You can advance from field to field within a page by using the tab key.

You can advance from one page to the next by clicking on the sub tab in sequence or by clicking Next.

When you run the Total Residual program after a previous correction, update the deformity parameters to reflect the current deformity. Any deformities that were corrected previously should be removed or they will be corrected again.

For frames with U-plates, foot rings or 2/3 rings, always select the appropriate 2/3 Ring/U-plate Orientation. This will allow a more accurate graphic representation of the frame. This will in no way affect your calculations.

Any changes made to your input are not saved until you actively save them. If you wish to keep the changes, always save your input before logging out of the software.

Screen Updates

If calculations or screen updates take longer than 10 seconds, you will receive this message.
Starting a Case

To start a case, click on the **Cases** tab. You will then see the 10 sub-tabs below the site navigation tabs. When starting a new case, you must input information sequentially into each of the sub tabs working from left to right. Type in the requested information and click on the **Next** button at the bottom of the screen.

**Case Number** is the alpha-numeric code used to match a patient with a particular Spatial Frame Case. This appears at the top of the Prescription and Report pages.

**Case Name** allows you to specify the text that will appear at the top of each page of the record. The case name and case number could be the same or you could specify something different.

**Patient Initials** allows you to enter the initials of the patient.

**Patient Number** is the unique number of the patient. This text appears on the Prescription and Report pages.
The Date field indicates the date that appears at the top of the Report page. It does not affect the start date for the Prescription. If this is a new case, the date defaults to the current date. If it is a retrieved case, the date the original case was saved will appear. You can change the date by clicking on the calendar icon and selecting the appropriate date.

**Required**

The Anatomy drop down menu allows selection of left or right anatomy. This is used for all calculations so proper selection is critical for an accurate outcome.

**Required**

Free text entered in Case Notes appears at the bottom of the Report Page. Limited to 100 characters.

**Optional**

Click Next to advance to the next screen.
Define Deformity

At the Define Deformity page, you will describe all deformities that exist at the time of frame application. There are six possible planes of deformity, but each patient may not have a deformity in every plane. Only enter values where a deformity exists. For those planes with no deformity, enter nothing. All deformities must be entered with both a magnitude and a direction.

The Define Deformity page allows you to input the current deformity using the "origin/corresponding point" method of deformity characterization. Before entering the deformity parameters, a thorough analysis of AP and lateral radiographs and a clinical examination to determine internal/external rotation is required. On the Define Deformity page, first select the Reference Fragment, either proximal or distal. All deformity parameter measurements are made relative to the reference fragment. Proper selection is a critical step toward getting an accurate reduction.
Define Deformity – Example

Reference Fragment

Origin

Corresponding Point
The reference fragment is the anatomical reference. All deformity measurements are made relative to it. The software assumes that the radiographic images are orthogonal to the reference fragment. The reference fragment can be either proximal or distal. Within the three images presented in the view box, the reference fragment is always blue; the moving fragment is green. The orthopaedic deformity parameters describe the deformity at hand relative to the reference fragment. For example: a 10mm medial translation for a proximal reference fragment means that the distal fragment is 10mm medially translated. However, 10mm medial translation for a distal ring reference means that the proximal fragment is medially translated.

Next, define the deformity. The deformity parameters completely describe the position of the moving fragment relative to the reference fragment based on AP, lateral, and axial radiographic projections. There are two parameters for each plane: angulation and translation. To input a deformity parameter, click on the parameter text box and input the magnitude in millimeters of the deformity. Next, select the direction by clicking the appropriate radio button located next to the direction text. It is important to realize that the images presented in the view boxes do not necessarily represent bone structures. Rather, they represent axis and points. Hence it is possible to evaluate the deformity anatomically or mechanically.

Once you have completed the deformity inputs, click Regenerate Views and the view box images will update to your latest inputs.
TAYLOR SPATIAL FRAME hardware is selected through the Select Frame page. Select the appropriate proximal and distal ring sizes by clicking the down arrow on the drop down box. Next, select the appropriate strut family. If you select Standard Struts or Fast Fx® the system will choose an appropriate set of struts for you. This is necessary for the chronic operative mode since, at this stage, the required strut lengths have yet to be determined. If you select Use Selection Below, you must choose a strut for each position.

Each frame uses six struts. You can use any combination of sizes and strut family (Fast Fx or Standard) on a frame.
Mount Frame

The Mount Frame page allows you to specify the operative mode and how the frame is positioned on the limb.

Operative Modes

**Chronic mode** – radiographic measurements are used in conjunction with the computer software to provide six strut settings that cause the Taylor Spatial Frame mechanism to mimic the deformity. The frame is then surgically attached to the patient. The patient then adjusts the struts back to their neutral position based on a prescription for strut adjustment. The software calculates the prescription.

**Residual mode** – radiographic measurements are used in conjunction with the computer software to provide six strut settings that cause the Taylor Spatial Frame apparatus to mirror the deformity. This requires that a neutral frame be surgically attached to the patient prior to the strut length calculation. The patient then adjusts the struts from the neutral position to the calculated strut lengths based on a prescription for strut adjustment. The software calculates the prescription.

**Total Residual mode** is similar to the Residual mode except that an initial neutral frame application is not necessary. This case is termed the “crooked frame on crooked bone”. Radiographic measurements and initial strut lengths are used in conjunction with the computer software to calculate final strut lengths. The patient then adjusts the struts from the initial position to the calculated final strut lengths based on a prescription for strut adjustment. When the frame reaches these final strut lengths, the deformity is corrected. The software calculates the prescription.
Mount Frame – Example

When you enter your Mounting Parameters, you only have to describe the relationship between the reference ring and the reference fragment. The graphic will reflect this. The software will infer the location of the moving ring.

Select the proper operative mode by clicking on the appropriate radio button. If you select chronic or residual, you must specify either the Neutral Strut Length or the Neutral Frame Height.

Operative Mode?
- Total Residual
- Chronic
- Residual
This is the **Initial Frame** page for the **Total Residual Mode**. The **Initial Frame** page shows the frame position/orientation and deformity on day one of the prescription schedule. Note the input boxes under each strut. Independent strut values must be entered here. These values are read directly from the struts. Once all of the strut lengths are entered, click on **Regenerate Views** to update the view boxes. If the initial frame is not what you anticipated, simply back up to the previous tab and correct your inputs. When the initial frame is correct, click **Next** to proceed to the **Final Frame** page.
This is the Initial Frame page for the Chronic Mode. The Initial Frame page shows the frame position/orientation and deformity on day one of the prescription schedule. The software calculates initial strut settings based on your deformity, frame, mounting parameters, and neutral frame height-neutral strut length. If the initial frame is not what you anticipated, simply back up to the previous tab and correct your inputs. When the initial frame is correct, click Next to proceed to the Final Frame page.
Initial Frame - Residual Mode

This is the Initial Frame page for the Residual Mode. The Initial Frame page shows the frame position/orientation and deformity on day one of the prescription schedule. In this mode, all the struts are the same length yielding a neutral frame. A neutral frame has no rotation, translation, or angulation. Once all of the strut lengths are entered, click on the Regenerate Views button to update the View boxes. If the initial frame is not what you anticipated, simply back up to the previous tab and correct your inputs. When the initial frame is correct, click Next to proceed to the Final Frame page.
The Final Frame page displays the frame position/orientation and the corrected deformity on the last day of strut adjustment. If you are satisfied you can advance toward the prescription to obtain these final results.

In the Chronic Mode, all final strut settings will be the same on this page according to the selected Neutral Frame Height/Neutral Strut Length.

In the Residual and Total Residual modes, most if not all the struts, will have different values on this screen.

This is an output only screen. The Final Deformity Parameters have all returned to zero since the deformity has been corrected. The Mounting Parameters remain constant.
The **Structure at Risk** screen is used to set up the time it will take to correct the deformity. Input the projected offset distance between the origin and the structures at risk and click the **Calculate Minimum Correction Time** button. Or, you can manually override the calculated value by entering a value in **Enter Correction Time (days)**. Once the SAR is completed, click **Next**.

The effect of entering SAR values is the velocity of correction will be reduced. This slows down the rate of correction but does not change the ultimate correction.

You can also reduce the velocity of correction by entering lower values as the **Max Safe Distraction Rate**.
Structure at Risk – Example
Click on the calendar icon to activate the calendar utility. The calendar utility is helpful for selecting Prescription start date and scheduling clinical visits.
The **Prescription** duration is set by the **SAR**. The **Prescription Start Date** can be modified using the input field.

Colored blocks clearly identify when struts need to be changed to a different size.

The progress of the virtual correction can be viewed on any day by clicking **View**.

**Case Number:** BRUT147  
**Case Name:** OEA HTO Surgery 6/12/02  
**Day:** 5 of 10  
2/23/04

**Strut Settings:**

<table>
<thead>
<tr>
<th>Strut</th>
<th>Setting</th>
<th>Medial</th>
<th>Posterior</th>
<th>Anterior</th>
<th>Medial</th>
<th>Lateral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strut 1</td>
<td>(Red)</td>
<td>154</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strut 2</td>
<td>(Change)</td>
<td>137</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strut 3</td>
<td>(Yellow)</td>
<td>173</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strut 4</td>
<td>(Green)</td>
<td>154</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strut 5</td>
<td>(Blue)</td>
<td>155</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strut 6</td>
<td>(Violet)</td>
<td>137</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Click **View** for any day of the correction to view the virtual progress of the deformity correction.
The Report page provides a summary of all the input and output information in text form including the prescription, strut change schedule, hardware listing, and case notes. A hard copy of the report page should be placed in the patient's file. It is the best way to reconstruct the case if the electronic file is not available.
The Report page also includes a detailed schedule for Strut Change-outs and Parts Listing.

<table>
<thead>
<tr>
<th>Mounting Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP View Frame Offset: 0.0 mm</td>
</tr>
<tr>
<td>Lateral View Frame Offset: 20.0 mm Posterior to Origin</td>
</tr>
<tr>
<td>Rotary Frame Angle: 0.0°</td>
</tr>
<tr>
<td>Axial Frame Offset: 30.0 mm Proximal to Origin</td>
</tr>
</tbody>
</table>

### Initial Strut Settings

<table>
<thead>
<tr>
<th>Strut 1 (Red)</th>
<th>Strut 2 (Orange)</th>
<th>Strut 3 (Yellow)</th>
<th>Strut 4 (Green)</th>
<th>Strut 5 (Blue)</th>
<th>Strut 6 (Violet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>140</td>
<td>135</td>
<td>135</td>
<td>160</td>
<td>160</td>
</tr>
</tbody>
</table>

### Final Strut Settings

<table>
<thead>
<tr>
<th>Strut 1 (Red)</th>
<th>Strut 2 (Orange)</th>
<th>Strut 3 (Yellow)</th>
<th>Strut 4 (Green)</th>
<th>Strut 5 (Blue)</th>
<th>Strut 6 (Violet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>157</td>
<td>131</td>
<td>195</td>
<td>166</td>
<td>152</td>
<td>121</td>
</tr>
</tbody>
</table>

### Structure at Risk

<table>
<thead>
<tr>
<th>AP View</th>
<th>Lateral View BAR Offset (mm): 45.0 mm Anterior to Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAR Off (mm): 30.0 mm Medial To Origin</td>
<td></td>
</tr>
<tr>
<td>Axial BAR Offset (mm): 25.0 mm Distal to Origin</td>
<td></td>
</tr>
<tr>
<td>Correction Time (days): 10</td>
<td></td>
</tr>
<tr>
<td>Max Safe Detection Rate (mm/day): 3.7</td>
<td></td>
</tr>
</tbody>
</table>

### Prescription

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Strut 1 (Red)</th>
<th>Strut 2 (Orange)</th>
<th>Strut 3 (Yellow)</th>
<th>Strut 4 (Green)</th>
<th>Strut 5 (Blue)</th>
<th>Strut 6 (Violet)</th>
<th>View</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/17/04</td>
<td>0</td>
<td>150</td>
<td>145</td>
<td>140</td>
<td>135</td>
<td>160</td>
<td>160</td>
<td>View</td>
</tr>
<tr>
<td>2/18/04</td>
<td>1</td>
<td>151</td>
<td>144</td>
<td>146</td>
<td>138</td>
<td>159</td>
<td>166</td>
<td>View</td>
</tr>
<tr>
<td>2/19/04</td>
<td>2</td>
<td>151</td>
<td>142</td>
<td>151</td>
<td>141</td>
<td>158</td>
<td>162</td>
<td>View</td>
</tr>
<tr>
<td>2/20/04</td>
<td>3</td>
<td>162</td>
<td>141</td>
<td>157</td>
<td>144</td>
<td>158</td>
<td>148</td>
<td>View</td>
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<tr>
<td>2/21/04</td>
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<td>163</td>
<td>139</td>
<td>162</td>
<td>147</td>
<td>157</td>
<td>144</td>
<td>View</td>
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<td>2/22/04</td>
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<td>138</td>
<td>168</td>
<td>150</td>
<td>166</td>
<td>140</td>
<td>View</td>
</tr>
<tr>
<td>2/23/04</td>
<td>6</td>
<td>154</td>
<td>137</td>
<td>173</td>
<td>154</td>
<td>155</td>
<td>137</td>
<td>View</td>
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<tr>
<td>2/24/04</td>
<td>7</td>
<td>155</td>
<td>135</td>
<td>179</td>
<td>157</td>
<td>154</td>
<td>133</td>
<td>View</td>
</tr>
<tr>
<td>2/25/04</td>
<td>8</td>
<td>156</td>
<td>134</td>
<td>184</td>
<td>180</td>
<td>154</td>
<td>129</td>
<td>View</td>
</tr>
<tr>
<td>2/26/04</td>
<td>9</td>
<td>156</td>
<td>132</td>
<td>190</td>
<td>163</td>
<td>153</td>
<td>125</td>
<td>View</td>
</tr>
<tr>
<td>2/27/04</td>
<td>10</td>
<td>157</td>
<td>131</td>
<td>195</td>
<td>166</td>
<td>152</td>
<td>121</td>
<td>View</td>
</tr>
</tbody>
</table>

### Strut Change-Outs

<table>
<thead>
<tr>
<th>Change-Out</th>
<th>Overlap Interval</th>
<th>Strut</th>
<th>First Day</th>
<th>Last Day</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td></td>
<td>3 (Yellow)</td>
<td>6 (2/23/04)</td>
<td>6 (2/23/04)</td>
<td>7107-0220</td>
<td>Medium Standard</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7107-0230</td>
<td>Long Standard</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>190mm Ring (7107-0115)</td>
<td>2</td>
</tr>
<tr>
<td>Standard Identification Band Kit (7107-0320)</td>
<td>1</td>
</tr>
<tr>
<td>Medium Strut (7107-0220)</td>
<td>6</td>
</tr>
<tr>
<td>Long Strut (7107-0230)</td>
<td>1</td>
</tr>
</tbody>
</table>

The Report page also includes a detailed schedule for Strut Change-outs and Parts Listing.
Saving a Case

You can save a case at anytime. Under the Cases tab, simply click File and Save Case.

The files in your folder are listed.

When saving the case, the following message will be displayed in a pop up box alerting the user that the files are saved electronically via the software.
Restoring a Case
You can open a case at anytime. Under the Cases tab, simply click File and Open Case.

Deforimit Parameters
- AP View Angulation: 23.0° Varus
- Lateral View Angulation: 10.0° Apex Anterior
- Axial View Angulation: 15.0° Internal

Anatomy: Right
Operative Mode: Total Residual

Frame Parameters
- Proximal Ring: 180mm Ring (7107-0115)
- Distal Ring: 180mm Ring (7107-0115)

Strut 1: Medium Strut (7107-0220)
Strut 2: Medium Strut (7107-0220)
Strut 3: Medium Strut (7107-0220)
Strut 4: Medium Strut (7107-0220)
Strut 5: Medium Strut (7107-0220)
Strut 6: Medium Strut (7107-0220)

Mounting Parameters
- AP View Frame Offset: 0.0 mm
- Lateral View Frame Offset: 20.0 mm Posterior to Origin
- Axial Frame Offset: 30.0 mm Proximal to Origin

Initial Strut Settings
- Strut 1: Red
- Strut 2: Orange
- Strut 3: Yellow
- Strut 4: Green
- Strut 5: Blue
- Strut 6: Violet

Final STRUT Settings
- Strut 1: Red
- Strut 2: Orange
- Strut 3: Yellow
- Strut 4: Green
- Strut 5: Blue
- Strut 6: Violet

Structure at Risk
- AP View SAR Offset (mm): 20.0 mm Medial To Origin
- Axial SAR Offset (mm): 25.0 mm Distal to Origin
- Lateral View SAR Offset (mm): 45.0 mm Anterior to Origin
- Max Safe Distraction Rate (mm/day): 8.7

Prescription
- Date
- Day
- Strut 1: Red
- Strut 2: Orange
- Strut 3: Yellow
- Strut 4: Green
- Strut 5: Blue
- Strut 6: Violet
- View

To open a case, click File, then Open Case.
Changing the User Profile

To change the name, phone number, email address, or password, click on User Profile.

Once your profile has been edited, click the Update button.
Logging Out

Click the Logout text to exit the protected portion of the site.

After logging out of the site, you will return to the Login page.

Note: You can also log out by closing your browser.
Notes