



Scorekeeper Quick Start Guide Automatic Setup

FIRST
LEGO
LEAGUE JR.

FIRST
LEGO
LEAGUE

FIRST
TECH
CHALLENGE

FIRST
ROBOTICS
COMPETITION

Gracious Professionalism®

*“A way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community”
- Woodie Flowers*

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FIRST Tech Challenge LIVE software

Introduction

- Welcome to the *FIRST* Tech Challenge LIVE software for scorekeepers. This software is located in the [GitHub](#) repository, a site for working collaboratively on programs and sharing code.
- The *FIRST* Tech Challenge LIVE software works with the cloud-based FTC Scoring system to score a selected event, add teams, generate users and provides methods for displaying the score. You can also add sponsors and logos, and a variety of other options. Event setup **MUST** be done in FTC Scoring by a PDP/admin.
- GitHub also has a section for reporting issues as they arise during the product development lifecycle to suggest updates to the software.
- Make sure to download the latest version of the FTC Live software before an event.

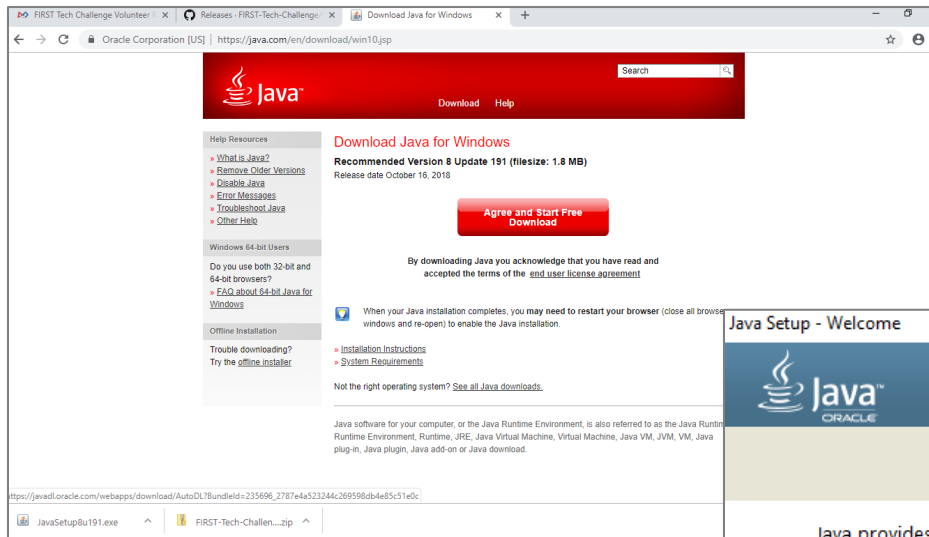
Download Java and the Software

Key Points:

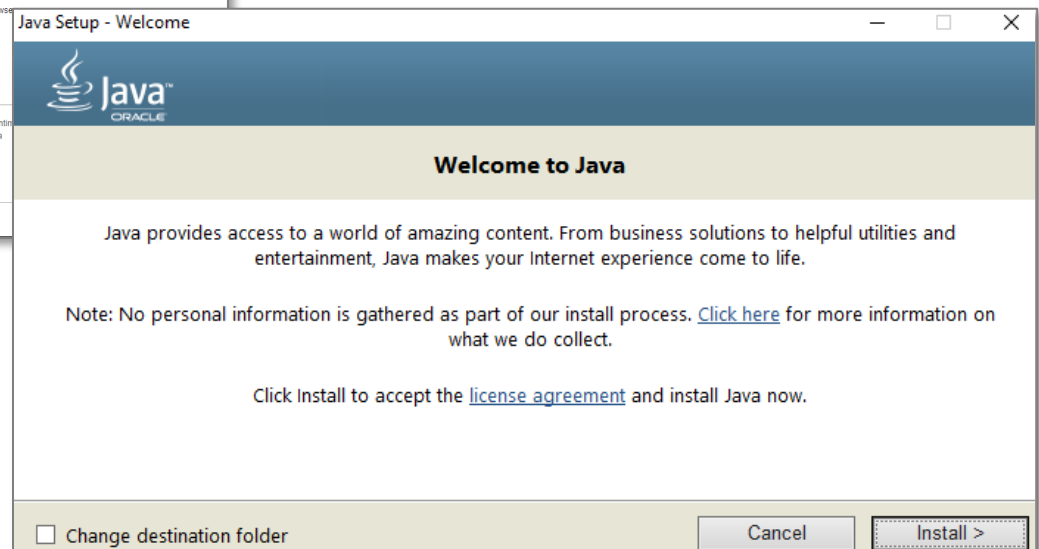
- The project folder is a .zip file that is compressed. Download the folder.
- Extract the compressed files from the Downloads folder, then move to the desktop.
- Use the Chrome browser for best results.
- On a Mac, it may require your Apple password.
- Release versions are archived so documentation history and release notes are available.
- An Issues tab allows access to the troubleshooting forum.

1. Download Java

Go to java.com to download the latest version of Java before downloading the scorekeeper software.



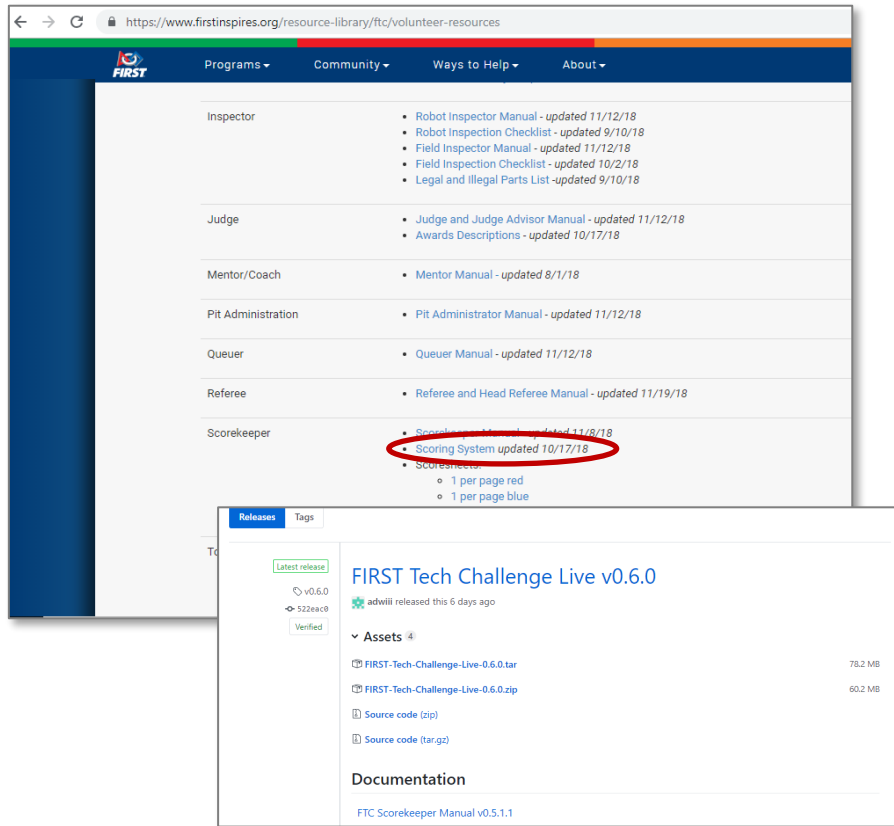
Opens the Java Runtime Environment (JRE):



NOTE: Mac/Linux users will need to install the [Java Development Kit \(JDK\)](#)

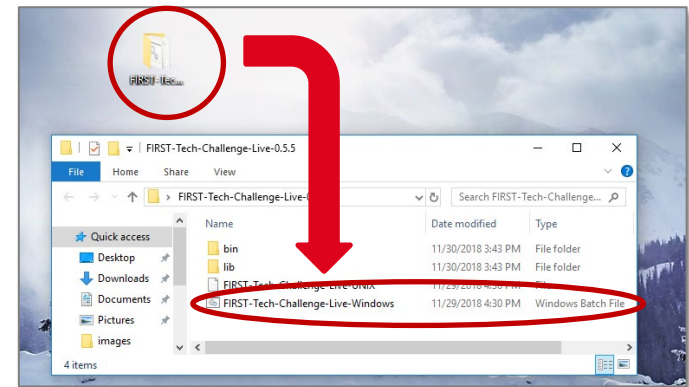
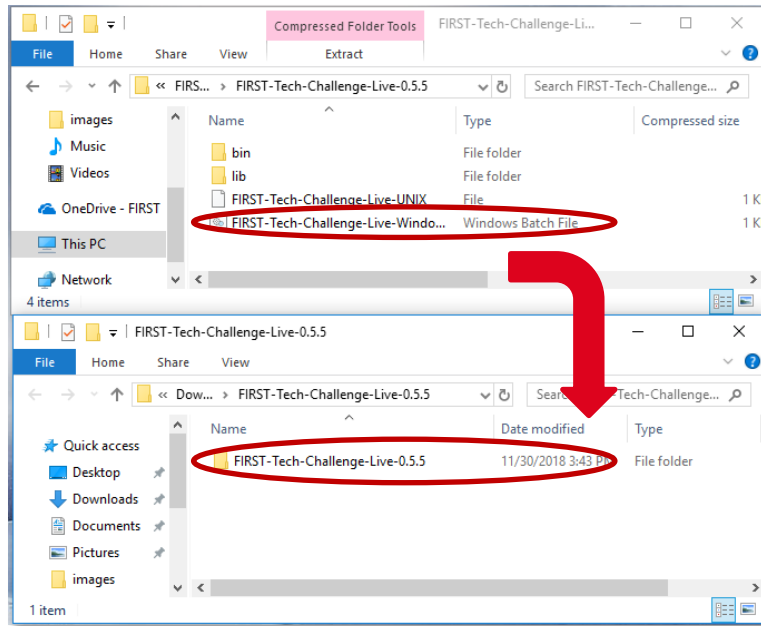
2. Download the Software

Open the FTC Volunteer Resources>Scorekeeper>Scoring System:
<https://www.firstinspires.org/resource-library/ftc/volunteer-resources>



- Takes you to the GitHub page. You can also go directly to the [FTC Live GitHub Page](#)
- Select the “Releases page” link to open the latest version of the software FIRST-Tech-Challenge-Live-0.Version.0.zip
- Selecting the .zip folder will download the folder, which needs to be extracted.

2. Download the Software

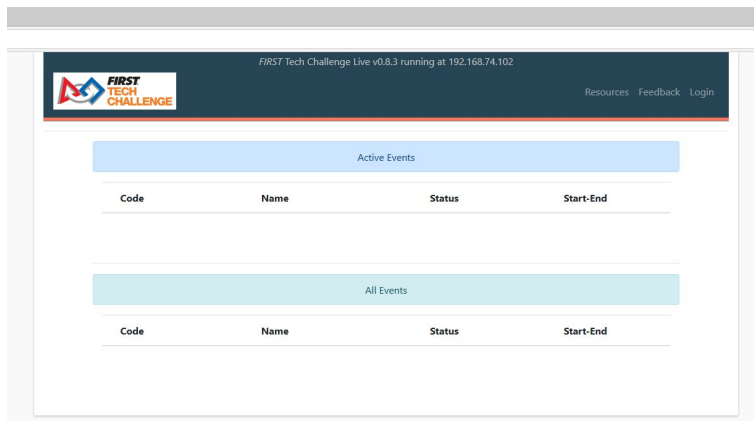


Go to Downloads to extract the compressed folder, then drag the extracted folder to the Desktop to Open.

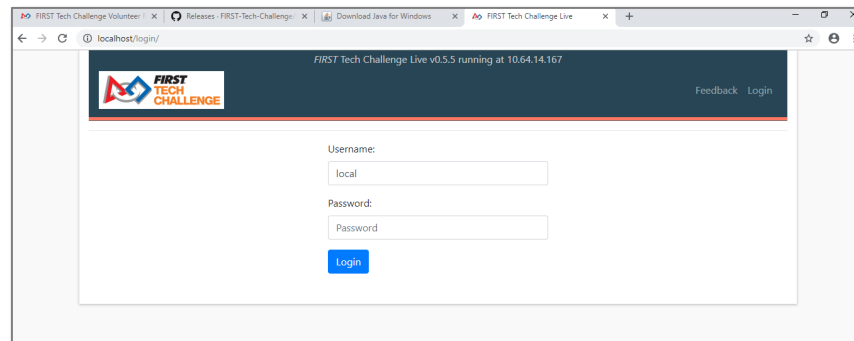
NOTE: For Mac/Linux users select the FIRST-Tech-Challenge-Live-UNIX file instead.

2. Download the Software

Opens the FIRST Tech Challenge Live user interface:

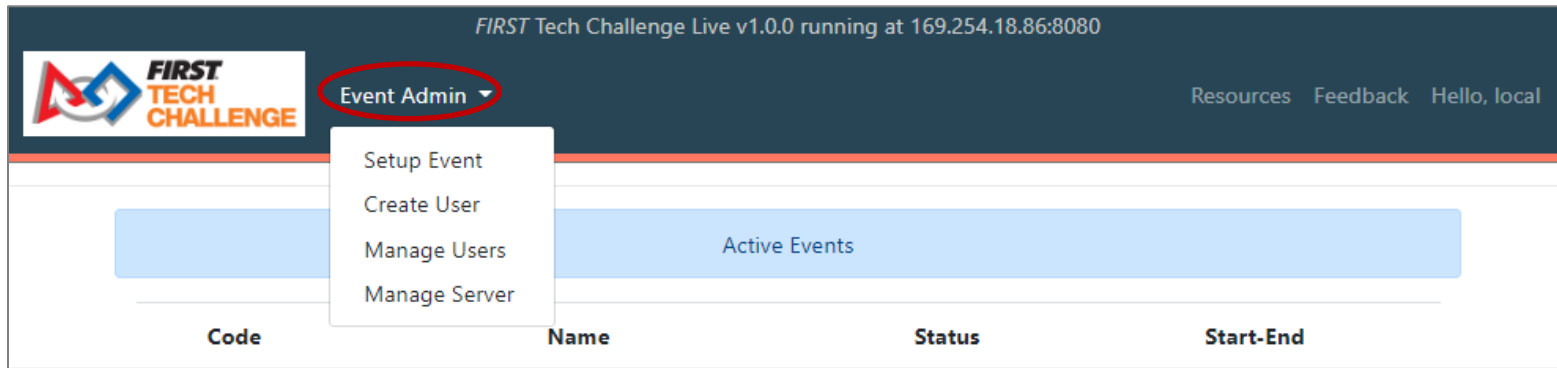


Select Login, then enter Username: local. Do not enter a password. Login.



2. Download the Software

Open the Event Home:



Event Admin opens a drop-down menu for different options.

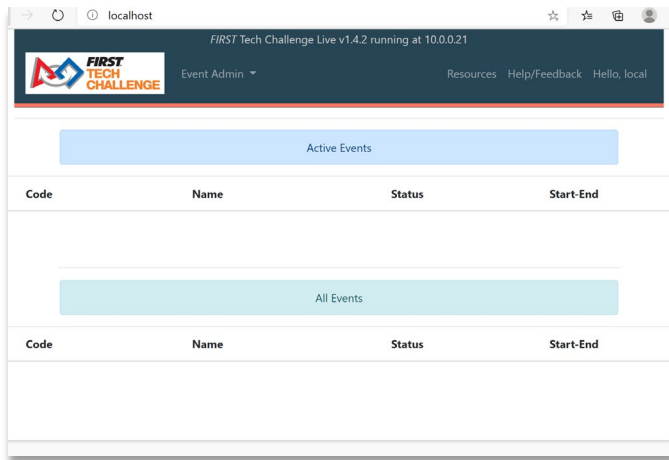
Event Setup

Key Points:

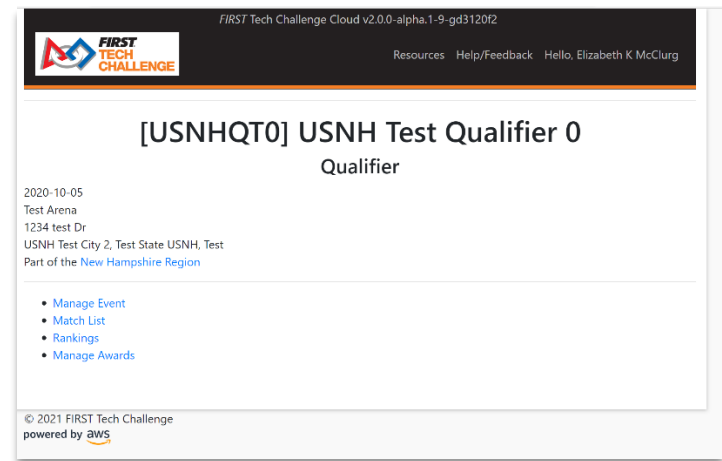
- 2020-2021 Ultimate Goal presented by Qualcomm season requires event set up in the FTC Scoring system by a PDP or event administrator.
- There are three options for the scorekeeper to access the event set up.
- Local login with unrestricted administrative access is only available on the Scorekeeper laptop.
- If necessary, can create accounts with restricted access using the Generate Random Accounts option.
 - Use `yourleague_referee` account for scoretracking.
 - Use `yourleague_eventadmin` for audience displays.
- The printer icon in the upper-left corner allows you to print a listing of accounts and passwords for distribution, as needed.

3. Set Up an Event – Automatic Setup

Automatic setup requires that FTC Live and FTC Scoring system are running simultaneously on a computer with wi-fi. Login to FTC Live, then [FTC Scoring](#) system with Event Admin access to find the event.



FTC Live (blue banner)



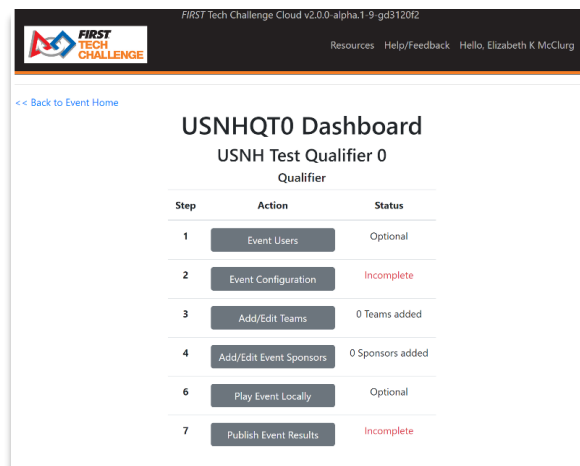
FTC Scoring (black banner)

3. Set Up an Event – Automatic Setup

In the FTC Scoring system, select “Manage Event”:



Select “Play Event Locally”.



3. Set Up an Event – Automatic Setup

Select the Automatic Setup “Import This Event” button:

The screenshot displays the 'Setup Local Play' interface. At the top, there is a navigation bar with the FIRST Tech Challenge logo and user information. Below the navigation bar, there is a breadcrumb link '<< Back to Event Dashboard'. The main heading is 'Setup Local Play'. Underneath, the 'Automatic Setup' section is highlighted, showing a message 'Found FTC Scoring System version 1.4.2' and a blue button labeled 'Import This Event' which is circled in red. A note below this section states: 'Note: This will redirect you to the local scoring system. Once setup is completed, edits can only be made in the local scoring system.' The 'Manual Setup' section follows, with instructions to give the event key to the scorekeeper or FTA, and a warning: 'DO NOT DISTRIBUTE TO ANYONE NOT RUNNING THE SCORING SYSTEM AT THIS EVENT'. The event key provided is '49e9cc69-a872-436d-8d7b-87951f18f42e'. The 'Offline Setup' section is at the bottom, with instructions to download an event file if there is no internet access, and a warning: 'DO NOT DISTRIBUTE THIS FILE TO ANYONE NOT RUNNING THE SCORING SYSTEM AT THIS EVENT'. A blue 'Download' button is located at the bottom of this section.

3. Set Up an Event – Automatic Setup

Confirm that this is the specified event:

Confirm Event Setup	
Please confirm that the event shown is the event your are expecting:	
Code	usnhqt0
Name	USNH Test Qualifier 0
Type	Qualifier
Region	USNH
Dates	Sun Oct 04 2020 - Sun Oct 04 2020
Venue	Test Arena
Address	1234 test Dr
City	USNH Test City 2
State	Test State USNH
Country	Test
League	
<input type="button" value="Cancel"/> <input type="button" value="Confirm"/>	

3. Set Up an Event – Automatic Setup

The specific event dashboard will now open in FTC Live:

usfirst Dashboard
Qualifier

Step	Action	Status
1	Edit Event	Done
2	Create Default Accounts	Not Started
3	Add/Edit Teams	0 teams added
4	Add/Edit Sponsors	0 sponsors added
5	Configure Judging/Inspection Tracking (Optional)	(Optional)
6	Create Judging/Inspection Schedule (Optional)	Not Started
7	Create Match Schedule	Not Started
8	Manage Awards	
9	Advancement Report	
10	Send Results to FIRST	
11	Download Archive File	

3. Dashboard Setup – Create Event

Event Dashboard options for your event appear:

Step	Action	Status
1	Edit Event	Done
2	Create Default Accounts	Not Started
3	Add/Edit Teams	0 teams added
4	Add/Edit Sponsors	0 sponsors added
5	Configure Judging/Inspection Tracking (Optional)	(Optional)
6	Create Judging/Inspection Schedule (Optional)	Not Started
7	Create Match Schedule	Not Started
8	Manage Awards	
9	Advancement Report	
10	Send Results to <i>FIRST</i>	
11	Download Archive File	

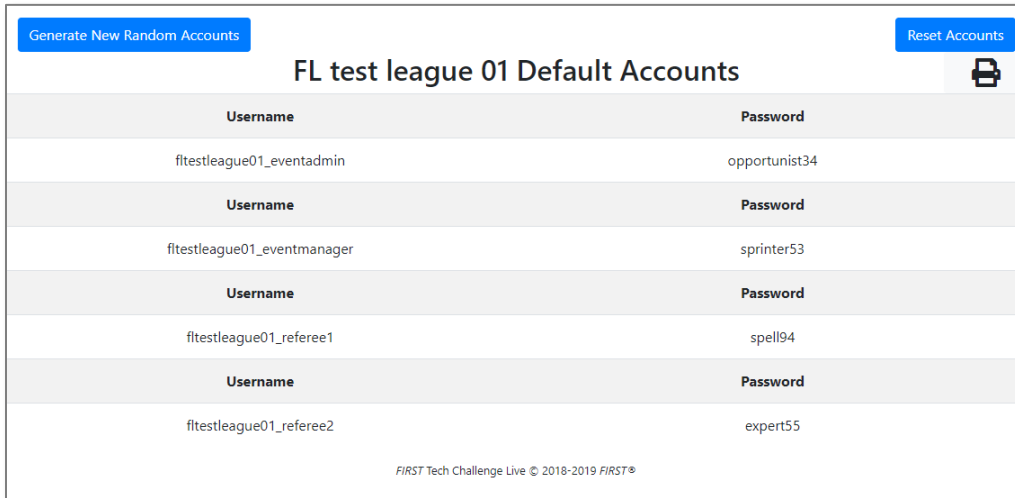
Event Dashboard allows for setup of:

- Teams
- Sponsor/logo
- Judging/Inspection Schedule
- Match Schedule
- Manage Awards
- Send Results to *FIRST*

Note: Event Dashboard displays actions (dark grey) that can be altered.

4. Dashboard Setup – Create Random Accounts

Select “Create Default Accounts,” then the button “Generate New Random Accounts” to create the default accounts.



Username	Password
ftestleague01_eventadmin	opportunist34
Username	Password
ftestleague01_eventmanager	sprinter53
Username	Password
ftestleague01_referee1	spell94
Username	Password
ftestleague01_referee2	expert55

FIRST Tech Challenge Live © 2018-2019 FIRST®

Note: Use yourleague_eventadmin for audience displays, and yourleague_referee account for scoretracking.

For more information, refer to the [Scorekeeper Manual](#).

Dashboard Setup – Steps 5, 6, 7, 8

Key Points:

- Add/Edit Sponsor section allows you to import a logo that will show up on the Match Control Page.
- The program sponsors are pre-loaded logos within FTC Live and FTC Scoring system.
- If you have a list of at least four teams for your event, you can generate the match schedule.
- Remember to add the required breaks to the Match Schedule.
- The Match Schedule lives in the Event Home interface.

5. Dashboard Setup – Add/Edit Teams for an Event

Important Note: It is recommended that this step be completed in the cloud-based FTC Scoring system **NOT** FTC Live, though the process is almost the same. Also, adding teams for leagues must be done in FTC Scoring system when setting up a league.



The screenshot shows the 'Add/Edit Teams' interface in the FTC Scoring system. At the top, there are two tabs: 'Find by State/Province' and 'Add Individually', with a 'Done' button on the right. Below the tabs, there is a 'Team Number to Add:' input field, an 'Add' button, and a checkbox for 'Hide Schools / Full Name'. To the right, there is a 'Choose File' button, a 'No file chosen' status, and an 'Upload Team List' button. Below this is a table with columns: Number, Name, City, State/Province, Country, Rookie Year, Advanced, Division, and Edit. Two teams are listed: '8888 Infinity Factor' and '11482 MaverBITS'. The 'Edit' column for each team contains two icons: a pencil and a trash can, both of which are circled in red.

Number	Name	City	State/Province	Country	Rookie Year	Advanced	Division	Edit
8888	Infinity Factor	Hollis	NH	USA	2014		0	 
11482	MaverBITS	Bedford	NH	USA	2016		0	 

- Go back to Event Dashboard, then select Add/Edit teams.
- Teams can be added by State, select them by Add Individually, or manually input a new team number.

6. Dashboard Setup – Add Sponsors

The first screenshot shows the 'fltestleague01 Dashboard League Meet' with a progress table. The 'Add/Edit Sponsors' button is circled in red.

Step	Action	Status
1	Edit Event	Done
2	Create Default Accounts	Done
3	Manage Leagues	0 leagues
4	Add/Edit Teams	0 teams added
5	Add/Edit Sponsors	1 sponsors added
6	Create Inspection Schedule (Optional)	Not Started
7	Create Match Schedule	Not Started

The second screenshot shows the 'Sponsors:' list with one entry: Autodesk, Regional. The 'Add' button is circled in red.

Name	Level	Logo	
Autodesk	Regional		Add Edit Delete

The third screenshot shows the 'Create Sponsor' form with fields for Sponsor Name (Autodesk), Level (Regional), and Logo (Choose File). The 'Create Sponsor' button is highlighted in blue.

- Add/Edit Sponsors button will open to the Sponsors List.
- Select the Add button to enter sponsor information.
- Logo files can be uploaded with Choose File.
- NOTE: Sponsor List page also allows for editing and adding a logo any time.

7. Dashboard Setup – Create the Match Schedule

Step	Action	Status
1	Edit Event	Done
2	Create Default Accounts	Not Started
3	Add/Edit Teams	0 teams added
4	Add/Edit Sponsors	0 sponsors added
5	Configure Judging/Inspection Tracking (Optional)	(Optional)
6	Create Judging/Inspection Schedule (Optional)	Not Started
7	Create Match Schedule	Not Started
8	Manage Awards	
9	Advancement Report	
10	Send Results to FIRST	
11	Download Archive File	

Schedule:

Start Time 2018/10/04 11:00 Remove

Matches: 5

End Time 2018/10/04 11:35

Label lunch Remove

Start Time 2018/10/04 11:35

Duration (min): 60

End Time 2018/10/04 12:35

Start Time 2018/10/04 12:35 Remove

Matches: 5

End Time 2018/10/04 13:10

Add Match Block Add Break

Total Matches Scheduled: 10 / 10

- On the Dashboard, select Create Match Schedule. Opens the adjustable schedule.
- Add Break to input an optional five-minute break, lunch break, etc.
- Run Matchmaker to view the match schedule.

Match	Field	Red 1	Red 2	Blue 1	Blue 2
Qualification 1	1	10939	4130	10941	10940
5 minute break for consecutive match per <T14>					
Qualification 2	2	10938	10937	8888	10939
5 minute break for consecutive match per <T14>					
Qualification 3	1	4130	10941	10938	8888
5 minute break for consecutive match per <T14>					
Qualification 4	2	10938	10940	10937	4130
5 minute break for consecutive match per <T14>					
Qualification 5	1	10937*	8888	10941	10939
5 minute break for consecutive match per <T14>					
Qualification 6	2	10940	4130	10937	10941
5 minute break for consecutive match per <T14>					
Qualification 7	1	10940	8888	10939	10938
5 minute break for consecutive match per <T14>					
Qualification 8	2	10937	10939	4130	10938
5 minute break for consecutive match per <T14>					

8. Print the Match Schedule

- Go back to Event Home, then select the Match Schedule under Event Info.
- Opens the match schedule. Select the Show Start Time box (optional), then the printer icon.

Event Info

- **Match Schedule**
- Rankings (This Event Only)
- Match Results
- Pit Display (This Event Only)
- Event Reports

League Info

- Combined Rankings
- Combined Pit Display

Score Tracking

- Red Alliance Score Tracking
- Blue Alliance Score Tracking

Event Administration

- Event Dashboard
- Match Control Page

FIRST Tech Challenge Live v0.5.5 running at 10.64.14.167

Event Admin Feedback Hello, local

<< Back to Event Home
Show Start Time

Teams: 11 Matches Per Team: 5 Matches: 14 Cycle Time: 7 min.

Start	Match	Field	Red 1	Red 2	Blue 1	Blue 2
10:55 AM	Qualification 1	1	516	619	450	2425
11:02 AM	Qualification 2	1	11342	10941	499	10944
11:09 AM	Qualification 3	1	506	11405	516	11377
11:16 AM	5 minute break for consecutive match per <T14>					
11:21 AM	Qualification 4	1	10941	10944	11377	619
11:28 AM	Qualification 5	1	11342	2425	506	499
11:35 AM	5 minute break for consecutive match per <T14>					

Print

Total: 2 sheets of paper

Print Cancel

Destination HP ePrint

Change...

Pages All

eg. 1-5 & 11-13

Copies 1

Layout Portrait

Color Color

Options Two-sided

More settings


Print using system dialog... (Ctrl+Shift+P)

9. Printable Score Sheets

On the FIRST website, open Scoresheets:

<https://www.firstinspires.org/resource-library/ftc/volunteer-resources>


or use the Resources tab in FTC Live software.



Blue Alliance



Match: ____ Field: ____



Red Alliance



Match: ____ Field: ____

Autonomous Period				Driver-Controlled Period			
Tower High	_____			Tower High	_____		
RED Tower Mid	_____			RED Tower Mid	_____		
Tower Low	_____			Tower Low	_____		
End Game Period							
Power Shot				Power Shot			
	Left	Center	Right		Left	Center	Right
Forward	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forward	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Back	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					None	Start	Drop
					Line	Zone	Rings
Wobble #1	Robot #1			Wobble #1	Robot #1		
Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>			Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>		_____
Wobble #2	Robot #2			Wobble #2	Robot #2		
Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>			Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>		_____
Penalties							
	# Minor _____			# Major _____			
Team #	No Show	Yellow Card	Red Card				
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

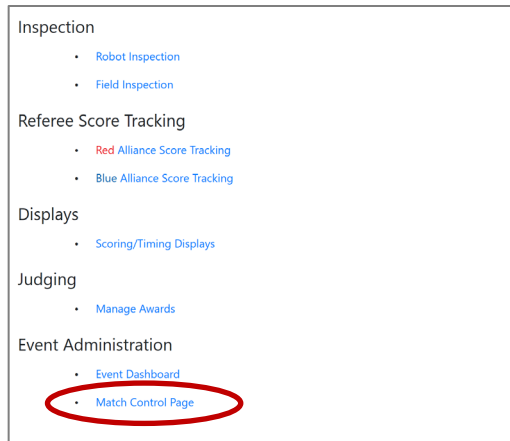
Autonomous Period				Driver-Controlled Period			
Tower High	_____			Tower High	_____		
BLUE Tower Mid	_____			BLUE Tower Mid	_____		
Tower Low	_____			Tower Low	_____		
End Game Period							
Power Shot				Power Shot			
	Left	Center	Right		Left	Center	Right
Forward	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forward	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Back	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					None	Start	Drop
					Line	Zone	Rings
Wobble #1	Robot #1			Wobble #1	Robot #1		
Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>			Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>		_____
Wobble #2	Robot #2			Wobble #2	Robot #2		
Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>			Delivered <input type="checkbox"/>	Navigated <input type="checkbox"/>		_____
Penalties							
	# Minor _____			# Major _____			
Team #	No Show	Yellow Card	Red Card				
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

10. Match Control Page

Key Points:

- Match Control gives a sequential list of the match schedule.
- Try a Test Match and preview the scoring beforehand.
- Play, Commit, and Post buttons will prompt FTC Live to perform actions throughout the match.
- Scorekeepers can edit the scores of a match prior to the referee submitting scores.

10. Match Control Page



- Go to the Event Home and scroll-down to Match Control Page.
- Explore the following options:
 - Schedule
 - Incomplete Matches
 - Active Match
 - Settings (Test Matches)

Exit usnhqt0 - FIRST Tech Challenge Live vv2.0.0-alpha.1-12-g415e27d running at 10.0.0.21

Match Control

Loaded Match:
Active Match:

Load Next Match Show Preview Randomize Field Show Random Show Match Start Match Commit & Post Last Match

Schedule Incomplete Matches Score Edit Active Match Settings Alliance Selection Video Switch

Match	Field	State	Red Score	Red 1	Red 2	Red 3	Blue 1	Blue 2	Blue 3	Blue Score		
Qualification 1	1	UNPLAYED	0	7078	8089	7135	7804			0	Play	Enter Scores
Qualification 2	1	UNPLAYED	0	7078	7804	8089	7135			0	Play	Enter Scores
Qualification 3	1	UNPLAYED	0	8089	7135	7078	7804			0	Play	Enter Scores
Qualification 4	1	UNPLAYED	0	7804	7135	8089	7078			0	Play	Enter Scores
Qualification 5	1	UNPLAYED	0	7135	7078	7804	8089			0	Play	Enter Scores

11. Audience Display Mode

Key Points:

- Audience Display mode can show:
 - Field Timer
 - Match Preview
 - Results
- For more information on display limits, see the [Scorekeeper Manual](#), find the section on Match Control Display titled Scoring Displays.

Completed Scorekeeper Set-up

Key Points

For additional details about any of these steps, please refer to the [Scorekeeper Manual](#).