

SST Sirrus®

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Chapter 1: Installing and Working with SST Sirrus

SST Summit and SST Sirrus

SST Sirrus was developed to transfer collected Grower-Farm-Field information directly to a SST Summit (agX Sync) Account, wirelessly. SST Sirrus is set up to be used in conjunction with 1 (one) agX Sync account. If more SST Sirrus' are needed, a second copy of SST Sirrus would need to be downloaded, which tie data to a second agX Sync account.

Multiple people running SST Summits can share data once it's been collected, and these shared data can be utilized across multiple locations through the partial agX Sync relationships through SST Summit.

System Requirements for SST Sirrus

- **Operating System:** iOS 6.1+ (should be a free update for all iPad 2 or greater)
- **Devices:** iPad 2, iPad 3, iPad 4, iPad Mini (most anything newer than an iPad 2)
- **Network:** Wi-Fi and/or Cellular (4G or 3G)
- **Storage:** 16GB will be more than enough; however, if it's filled with movies and music obviously you will want to buy a larger capacity but the 16GB will work fine with SST Sirrus for data collection. *The reason people use 16GB is because that is the minimum storage that you can buy in an iPad currently.*

Installation of the SST Summit Software

Installing SST Summit from the SST Homepage:

1. Navigate to the **sstsoftware.com** webpage.
2. Select **SST Products/Download Free Trial** at the bottom left of the page.
3. **Fill out the information boxes**, once completed click the **Submit** button.
4. The download process will begin, follow the on-screen directions.
5. Once the download is complete and you want to purchase, you will need to contact **SST Software @ 1-888-377-5334** to register the software and receive the Summit Key.

Getting Your Summit Key:

1. Open **SST Summit**.

2. Select **Home** from the top menu.
3. Select **Settings** on the left of the view.
4. Select the **SST Summit Key** tab.
5. Email the **Device ID** and **Serial Number** to support@sstsoftware.com.
6. An SST Customer Service Representative will reply with your **Summit Key**.

Create an agX Sync Account:

1. In SST Summit, navigate to **Setup/agx Account/agX Account Setup**.
2. Select the **agX Account Setup** option.
3. Fill out all the contact information and a SyncID will be set up for your Summit. You will need to “click” the agX Sync button for this process to complete.
4. Once completed, you can always go to the SST Summit or SST Summit Profession icon in the top left of the view, if you hover the mouse there your Serial Number and your agX Sync ID account number will appear on the line below.

Installing SST SIRRUS:

SIRRUS can be installed by navigating to the Apple App store and searching for **SST SIRRUS**. Follow the instructions and download the program onto your iOS hardware system.

Creating your SyncNow Account

Once SST SIRRUS has been installed and data has been collected; such as field boundaries or soil test samples, you are ready to synchronize to your agX Sync account. To do this click the **Sync** button in the lower-right side of your iPad. A window will pop up asking for your **Account Information and Log-in ID**. In this process you will be able to enter the agX Sync account information for establishing this connection. Again, you will have the capability to establish 1 relationship to an agX Sync account from SST SIRRUS.

Chapter 2: SST SIRRUS Applications and Functionality

SST SIRRUS

SST SIRRUS is an iPad app that can be utilized to;

- Drive field boundaries using GPS;
- Draw field boundaries using on-screen imagery;
- Setup a soil sampling operation using either grid, zone, or resample;
- Collect Crop Scouting level inputs;
- Syncing of data back to a SST Summit through the agX Sync account;
- Access Weather information on an hourly, daily, or monthly schedule.

SST SIRRUS can be used in a web-based mobile interface to enable the collection, viewing, reporting, and transfer of site-specific data created and consumed by the service provider and grower markets on mobile devices.

Digitizing a Boundary using Online Imagery

1. **Open SST SIRRUS and click the Farm Data** tab located in the bottom center of the screen.
2. **Select the + sign drop down options.** *(If this does not appear you will need to click on the “Farm Data” button at the bottom of the screen to see this functionality.)*
3. **Choose the Create Boundary option.**
4. **Active the Boundary Tools** by clicking on this button.
5. **Choose the Draw** option.
6. **Zoom in to the Field area of your choosing. Click on the screen to drop vertices and choose the “Close Polygon” to complete the boundary.**
7. The field edit buttons are located under the Boundary Tools drop-down list. These give you the capability to use GPS, Draw, Pivot, Measure, Split, Edit Vertex, and Union.
 - **GPS** – used with a GPS receiver to drive the field to create the boundary.
 - **Draw** – used to “click” around the field to drop vertices.
 - **Pivot** – used to create a Center Pivot field boundary. Click on the field where you want to drop the pivot, move the pivot by placing your finger where you want

it moved to. Change the Radius by entering the value you need in the units box.

- **Measure** – There are 4 Measure options; *Absolute*, *Relative*, *GPS*, and *Area*. *Absolute* gives you exactly the distance you enter into the Radius. *Relative* will measure your distance as you pull your finger or stylus across the screen. *GPS* has to be used in the field, of course, in conjunction with GPS to measure out an area. *Area* will show you the entire area vs. the intersecting area within the boundary.

8. When finished with the boundary select the **Save Field** button.
9. Enter the name of the **Grower, Farm, and Field**.
10. **Choose Save and Create Another or Save and Exit.**

Driving a Boundary using GPS

1. With the “Farm Data” tab selected, click on the **Plus Sign** to select the **Create Boundary** option.
2. Under the **Boundary Tools** drop-down list, choose the **GPS option**. *At this point the assumption is you have set up your iPad with GPS using either the internal or external Bluetooth option. If not, this will need to occur before you can proceed using this functionality.*
3. Move to the area of the field to begin driving the boundary and “**Start**” the process. As you drive you will notice that it is dropping points (vertices) and snapping the line to define the field boundary.
4. When you are finished with the boundary, select the **Stop** button.
5. **Enter the name of the Grower, Farm, and Field** and select the **Save** button.
6. **Choose Save and Create Another or Save and Exit.**

Creating a Soil Sampling Layer (Grid Option)

1. With the “Farm Data” tab selected, open to the **Field boundary** of your choice.
2. Click on the **Plus Sign** and choose the **Soil Sample** option.
3. **Enter a Name for the layer, choose the Season, and the Event Date.**
4. Select the **Next** button.
5. Choose **Grid, Zone, or Resample**. For this option choose **Grid**.
6. You can set your Grid Size to the settings of your choice by pulling your finger up or down the screen on the Acres setting. You have the option of

either placing the point to the Center or Random within the Field. You can rotate the Grid by rotating your fingers on the screen until you get the best outlay of the grid on your field.

7. Once everything is set up correctly, choose the **Set Grid** button.
8. In the next window you can “Set a Routing” scheme, if you choose; if not needed, select the **Skip** button and continue.
9. **Navigate to the first point to be sampled, Enter the Sample ID, the Depth, and the Units. Click the Drop Point button** to enter that point into the table, continue this until all the points are completed. *If a deep sample is required at any location, click on the **Details** and enter the Sub-soil information.*
10. When all samples are completed, click the **Finish** button to finish the process. You’ll be given the option to review the Name, Season, and Event Data; when satisfied choose the **Save** button.

Creating a Soil Sampling Layer (Zone Option using Point)

1. With the “**Farm Data**” tab selected, **navigate to the field level** and click the **Plus Sign drop-down list**. Select **Soil Sample**.
2. **Name this Layer** and select the **Season** and **Event Date**, then click the **Next button**.
3. Choose the **Zone** option for sampling.
4. Select the “**Point**” option.
5. The user has the option to drop points for navigation or you can skip this step. If you drop the points you are basically building a Navigation Route and letting GPS guide you where to sample next. If you **Skip** this option you are basically saying, “I’ll drop my points on an as-needed basis”. For this option select the **Skip button**.
6. In the next view, before you can begin sampling you will need to fill out the “Yellow Next Record” in the bottom of the view. Once this is filled in, your **Drop Point** button becomes available to use.

Creating a Soil Sampling Layer (Zone Option using Polygon)

1. With the “**Farm Data**” tab selected, **navigate to the field level** and click the **Plus Sign drop-down list**. Select **Soil Sample**.
2. **Name this Layer** and select the **Season** and **Event Date**, then click the **Next button**.
3. Choose the **Zone** option for sampling.
4. For the **Data Format** option select **Polygon**. At this point also, click the **Tools button** and select the **Load Mgmt. Zone option**. You will want to

select a management zone (that you've synched from your Summit) such as soil types, yield zones, etc. to tie the soil sampling to.

5. You will be asked if you want to drop points (for directed soil sampling) within the zones or you can **Skip** this step if preferred. *If chosen you would drop your points at the various x,y locations around the field. The logic is that this would be the soil sample locations within your zones you want to direct your field people to. Although, at the end of the day, the sample would be tied to the zone, not the points in this example.*
6. In the view, select one of the zones by tapping it on the screen. Your records for that area will show up at the bottom of the screen. Fill everything out appropriately for the Zone ID, Sample ID, Depth and Units, and Subsoil (if needed).
7. Continue selecting zones and filling out the needed information throughout the field. If two zones need the same information, Select one, fill out the information and use the Multi-Select to assign this information to the other zones.
8. When you are done select the Finish button. In the next box if nothing needs to be corrected, then click the **Save button**.
9. This layer will now appear at the Field level as a Soil Sampling Operation.

Note: At any point you can cancel the current operation by selecting the Cancel button.

Creating a Scouting Operation (Whole-field Operation)

At the Grower, Farm, or Field views a Scouting Operation can be recorded in SST SIRRUS. Once this is recorded, these data can be synchronized back to your Summit and used in the creation of Scouting Reports. You will need to navigate to **Settings/Farm Data/Scouting** and set your option to **Polygon or Point** for this option.

1. To Create a Scouting report **navigate to a Grower, Farm, or Field** level view.
2. Select the **Farm Data** tab on the bottom center of the screen.
3. There is a **plus sign in the upper left-hand view of this window**, select this and an option list will appear.
4. Select the **Scouting option**.
5. Fill out the **Scouting tab** and/or the **General Info tab** for the information needed. On the bottom of this screen are the options for Crop Info, Weeds, Insects, Disease, Beneficials, and Crop Damage. Fill out what is needed for each of these within a field or across the entire field, then select the **Save button** in the top right side of this view.

6. Fill out the **Season, Event Date, Name of the Operation, and any Notes you many need for these data**. Click the **Save button** when finished.

Creating a Scouting Operation (Using Management Zones)

At a Field view a Scouting Operation can be recorded in SST SIRRUS using Management Zone splits. Once these data are recorded, they can be synchronized back to your Summit and used in the creation of Scouting Reports. You will need to navigate to **Settings/Farm Data/Scouting** and set your option to **Polygon or Point** for this option.

1. To Create a Scouting report using Management Zones **navigate to a Field** level view.
2. Select the **Farm Data** tab on the bottom center of the screen, if you haven't already.
3. There is a **plus sign in the upper left-hand view of this window**, select this and an option list will appear.
4. Select the **Scouting option**.
5. Select the **Tools** button option. This gives the user the option to **Load Mgmt. Zones** or create new ones using the **Split tool**. For this example choose the **Split** option.
6. There is no GPS functionality with this tool for splitting if using the Polygon option at present, you either have to click on the screen to log split areas or load the mgmt. zones already created from SST Summit. Once the Splits are created, select them by clicking on those zones on the screen to fill out information needed within the Scouting Operation. *Remember the Multi-select tool can be used if more than one zone has identical information to save entering information more than once.*
7. Fill out the **Scouting tab** and/or the **General Info tab** for the information needed. On the bottom of this screen are the options for Crop Info, Weeds, Insects, Disease, Beneficials, and Crop Damage. Fill out what is needed for each of these within a field or across the entire field, then select the **Save button** in the top right side of this view.
8. Enter the correct **Season, Event Data, and Name**. When completed select the **Save** button.

Creating a Scouting Operation (Using Points)

At a Field view a Scouting Operation can be recorded in SST SIRRUS using the Point option. Once these data are recorded, they can be synchronized back to your Summit and used in the creation of Scouting Reports. You will need to navigate to **Settings/Farm Data/Scouting** and set your option to **Point**.

1. To Create a Scouting report using Points **navigate to a Field** level view.
2. Select the **Farm Data** tab on the bottom center of the screen, if you haven't already.
3. There is a **plus sign in the upper left-hand view of this window**, select this and an option list will appear.
4. Select the **Scouting option**.
5. You can select to use the **Drop Points Tool** (using GPS) or **click on the screen and hold** (the magnifying glass will appear) and drop points. Either way will place points on the field at selected locations. **The push-pin is the point that is selected to record scouting data**, once the next pin is dropped the last one turns to a round green circle. If you need to go back to an earlier point, click on the center of the green circle and it turns to a push-pin, indicating that you want to change something for that point's scouting record.
6. Fill out the **Scouting tab** and/or the **General Info tab** for the information needed. On the bottom of this screen are the options for Crop Info, Weeds, Insects, Disease, Beneficials, and Crop Damage. Fill out what is needed for each of these within a field, then select the **Save button** in the top right side of this view.
7. Fill out the **Season, Event Date, Name of the Operation, and any Notes you many need for these data**. Click the **Save button** when finished.

SIRRUS Reports (Grower and Farm View for Summarizing)

Once data has been recorded in the Scouting Operation it can be reported through the Reports section. To access and utilize these functions, use the following steps.

1. At the **Grower and Farm** views you can select the Right-facing arrow for Reports in the top right portion of the view. This allows you to summarize the report for the current day, past 3 days, past 7 days, past 10 days, 1-month, or custom set your options.
2. **Enter a name for the Report** and select **Next**.
3. In the Report view you can Print or Save this Report for future use. *(If you have an Air Printer these reports can be printed directly to this device).*

Sirrus Reports (Field View)

Data that has been recorded in the Scouting Operation can be reported through the Reports section. To access and utilize these functions, use the following steps.

1. At the **Field view** you can select the Right-facing arrow for Reports in the top right portion of the view. This allows you to run the report for the current set of Scouting Operation inputs from the field level.
2. **Select the Operations** you want to run the reports from by placing a check-mark in their respective boxes and click Next.
3. **Enter a name** for the Report and select Next.
4. In the Report view you can Print or Save this Report for future use. *(If you have an Air Printer these reports can be printed directly to this device).*

Shapefile

Layers that are collected in SST Sirrus can be sent out as a Shapefile for other uses.

1. At a **Field level** view, select the Right-facing arrow for Reports in the top right portion of the view. In the drop-down list select the Shapefile option.
2. **Give this file a name** that is appropriate and click Next.
3. **Place a check-mark in the boxes** that you want to send out as a Shapefile format and click Next.
4. You have choice options to share this file with others; make the appropriate choice and continue.

Data Bullet

The Data Bullet can be used to send data to other users without having a Sync Relationship with those other locations. To send a Data Bullet use the following steps.

1. **At a Field level view**, select the Right-facing arrow in the top right portion of the view. In the drop-down list select the Data Bullet option.
2. **Setup your Contact**; the person who is to receive your data bullet. You will need to enter the email address, Sync ID, and name. When this is entered, select

the Add Contact button. (These contacts are added to the lower list). Place an X by the one's you want to send the Data Bullet to.

3. **Select the layers** you want to include in the data bullet and click Next.
4. You have the option to **Transfer the Administration rights** for all items, selected items, or none of the items.
5. Once these selections have been made, you will need to Sync to send the Data Bullet.

The **Settings** Button Options

On the bottom of the screen is a listing of several buttons; one of them is the **Settings** button. When selected you have a choice of setting the **Map Settings, Data Settings, Localization Settings; Language and Units, GPS Settings, Soil Sample Setting, Boundary Creation setting, Force Reconciliation of Data, and Application Reset.**

- **Map Settings:** choices between Roads, Satellite, or Hybrid (showing both)
- **Localization:** select the Language and the units to be used
- **GPS:** Set the Offset whether to the right or forward
- **Boundary Creation:** sets the Minimum Area criteria; if the area doesn't meet the setting it simply will not be created
- **Force Reconciliation of Data:** Before you use this, call SST Customer Service @ 1-888-377-5334 as it will cause a full sync of all data and could take some time to complete the process
- **Application Reset:** this option can be used whereas the SST SIRRUS or iPad is now in the hands of a new employee or user of the program. All existing data will be removed and a new login and new account will need to be established.
- **Operation Reports:** this option allows the user to change the Logo for the Operation Reports.

Once these settings have been entered properly, click anywhere outside this screen or on the Settings button to dismiss this view.

SyncNow button

If you have Internet Service and you select the **SyncNow** button, found along the bottom right side of the view, all your data layers will be synched back into your agX Sync account. The number that appears in Red to the top left side of the Sync button is the number of layers that will be Synched to your account. This is in near-real time and will not take but a moment to appear in your SST Summit account.

Viewing Selected Growers on Your SIRRUS

On your SST SIRRUS, once you have logged into your agX Sync account and synced to the server, you have the option to turn on only the Growers-Farms-Fields (G-F-F) that you want to view. This will save time on Syncing when a customer has an enormous amount of data in regards to field boundaries and stored data.

Turning On or Off other G-F-F's on SST SIRRUS

1. **Navigate to the entire listing of all Growers-Farms-Fields.**
2. Select the **Edit** button.
3. A Cloud will appear beside each Grower that is not visible on your SST SIRRUS currently. **Select the Cloud** and that G-F-F structure will be available from your agX Sync account.
4. Complete just the opposite to turn off a G-F-F; in the Edit window select the X in the circle button and that G-F-F will not be available to view. Nor will it take time to download these data for this G-F-F each time you hit the "Sync" button.

Weather Settings

Select the **Weather tab** at the bottom of the screen to view this application. Weather information is provided at any level (Grower, Farm, or Field view) within the program. Depending on which view you select the nearest City is located to give the user the weather conditions reported from that location selected.

When you choose **Weather**, the default is the Clouds option but also available are US Radar, US 1-hr Precip, US 24-hr Precip, Australia Radar, Australia 1-hr Precip, and Australia 24-hr Precip.

Appearing on the bottom of the screen will be these options for the Weather reports:

Current Weather: This option gives the Current Weather conditions at a location chosen within SST Sirrus.

10-Day Forecast: This option breaks down the weather forecast into a 10-day interval.

Hourly Forecast: This option breaks down the weather forecast into 1-hour increments over a 24-hour period of time.

Historical Precipitation: Covers the area selected over the amount of time selected, as well.

Animation Button (Triangle button)

In the Animation view the map will show the Weather options selected either from the Clouds Map, US Radar, US 1-hr Precip, or US 24-hr Precip. Select any of these choices and the map will rotate the latest series of weather patterns related to this topic.

Transparency button

This setting button allows the user to set the transparency settings for the weather view of the data being presented.