

Solo User Guide

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Product Name: Solo

Solo User Guide

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Revision history

Date	Revision	Version	Comments
11/18/2021	А	0	Initial baseline version.
4/1/2022	В	0	Documented steps to connect the Voisus Client to Solo in "Connect the Voisus Client to Solo."
2/2/2023	С	0	Disassociated Solo from the Voisus product by removing Voisus references and updating screen-shots of the Solo logo.
1/14/2025	С	1	Updated Roles/Radios , Manage Clients , and About navigation screenshots.
			Documented DIS modulations and steps to create custom modulations in "DIS Modulations," enabling Radio Monitor and QuickTune functionality in "View network radios on Monitor."

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1.0 Introduction

ASTi expanded its powerful comms and sound product suite with Solo, a standalone application that installs on your Windows desktop or laptop. Compact and portable, Solo can adapt to any training scenario. No extra hardware required.

Perfect for small programs, single operators, or last-minute stand-up for training exercises, Solo provides instant comms for training at the point of need. Its intuitive interface enables administrators to configure the core communication requirements of any exercise. Back up, restore, import, and export settings to different systems, or define multiple roles with different radios. Quickly set up simulated radios, intercoms, and more, creating a comms environment that meets your Modeling, Simulation, and Training (MS&T) needs.

In a typical configuration, Solo runs alongside a Voisus client on your computer. It communicates with other assets (e.g., a flight simulator, PC operators, LVC, RoIP) via the Distributed Interactive Simulation (DIS) network:



Figure 1: Example Solo configuration

This low-cost, low-maintenance option interoperates with all ASTi products and DIS-based training applications. It doesn't just offer ready-to-go interfaces: ASTi's software development kit (SDK) lets you develop custom user interfaces for almost any application. Integration is simple, making it easy to add high-fidelity radio simulations and comms to virtual reality (VR) devices and Next Gen training environments.

Features and capabilities include the following:

- Voisus client compatibility
- Customer-furnished equipment (CFE), government-furnished equipment (GFE), and thin client compatibility
- Windows compatibility
- A Comm Plan with customizable radio frequencies, modulations, and audio codecs
- Library of advanced radio skins
- Customizable DIS radio features (e.g., entity attach)
- Dark mode

Intended for maintenance technicians or users, the *Solo User Guide* discusses the following topics:

- Solo configuration
- Client connection

By this point, you should have already configured one or more scenario(s), licensing, and network settings as described in the *Solo Quick Start Guide*. This guide explains how to set up client resources in Solo (e.g., scenarios, a Comm Plan, radios, DIS settings) and connect them to a Voisus client.

2.0 Solo configuration

Solo scenario templates come with a preconfigured Comm Plan, a role, and multiple radios that allow you to communicate right away. However, Solo also gives you the flexibility to customize your assets to best suit your program's needs.

Common configuration tasks include the following:

- Adding nets to the Comm Plan
- Adding or editing clients
- Adding or editing radios

This chapter discusses the following topics:

- Sidebar
- Comm Plan
- Roles
- DIS
- Clients
- Backup / Restore
- About
- Settings

2.1 Sidebar

On the left, an expandable and collapsible sidebar contains the majority of Solo's settings and resources. To collapse the sidebar and maximize screen space, from the top navigation bar, select the collapse icon (‡):

S	Example Scenario
ଜ ደ	Roles
ж	+
ß	role 1
≔	\bigcirc role 2
R	role 3
守	
۲	
í	

Figure 2: Collapsed sidebar

To expand the sidebar and view each page's name, select the expand icon (≣):



Figure 3: Sidebar settings resources

2.2 Comm Plan

The **Comm Plan** is a collection of virtual communication nets with customizable parameters, such as frequency, waveform modulation type, crypto, and frequency hopping. Use nets to fill simulated radios on the **Radios** tab.

Comm Plan							Import Export	
Nets Net Groups	Waveforms Cryptos	Freqhops S	atcoms					
+ 🕑 🗈 Tick on field to edit								
Name 🗖	Description 🗢	Frequency (Hz) 🗢	Waveform 🗢	Crypto 🗢	Freqhop 🗢	Satcoms 🗢	Net Groups	
Secure1	Secure Radio Net	104,000,000	FM	KY58	None	None		
RNet3	Radio Net3	103,000,000	FM	None	None	None		
RNet2	Radio Net2	102,000,000	FM	None	None	None		
RNet1	Radio Net1	101,000,000	FM	None	None	None		
ICS_Net3	Intercom Net3	103	INTERCOM	None	None	None	Conf	
IC5_Net2	Intercom Net2	102	INTERCOM	None	None	None	Conf	
ICS_Net1	Intercom Net1	101	INTERCOM	None	None	None	Conf	
Coordination	Coordination Net	100	INTERCOM	None	None	None	Conf	
«« « <mark>1</mark> » »»	Showing results 1 - 8 of 8 total results 5 10 20 50							

Figure 4: Comm Plan

Radio nets connected to Voisus clients must share key net settings to intercommunicate:

- Frequency
- Waveform modulation type
- Bandwidth
- Crypto settings

Clients can communicate by tuning to the same net or using different nets with the same settings:



Figure 5: Radio net match

This section discusses how to:

- Add a net
- Add nets to a net group
- Delete a net group
- Import or export a Comm Plan

2.2.1 Add a net

To add a net in the Comm Plan, follow these steps:

1. On the left, open the scenario, and go to Comm Plan.

SOLO	1						Example Scer	nario: Idle 🗸 💿 🗘 🏟
Example Scenario Comm Plan Comm Pla	Comm Plan Nets Net Groups W + 2 (1) (1) (1)	Javeforms Cryptos Freqho	ps Satcoms					(Import) (Export) Q. Search
I Scenarios	Name *	Description \$	Frequency (Hz) \$	Waveform ©	Crypto \$	Freqhop ©	Satcoms \$	Net Groups
& Licensing	Secure1	Secure Radio Net	104,000,000	FM	KY58	None	None	Group4, Group3, Group2
🛱 Backup / Restore	RNet3	Radio Net3	103,000,000	FM	None	None	None	Group4,Group3,Group2
Network Settings	RNet2	Radio Net2	102,000,000	FM	None	None	None	Group4, Group3, Group2
① About	RNet1	Radio Net1	101,000,000	FM	None	None	None	Group4, Group3, Group2
	C ICS_Net3	Intercom Net3	103	INTERCOM	None	None	None	Group4,Conf,Group3,Group2
	C ICS_Net2	Intercom Net2	102	INTERCOM	None	None	None	Group4,Conf,Group3,Group2
	CICS_Net1	Intercom Net1	101	INTERCOM	None	None	None	Group4,Conf,Group3,Group2
	Example Net	None	0	SINCGARS	KY58	FREQHOP1	None	Group4, Group3, Group2
	Coordination	Coordination Net	100	INTERCOM	None	None	None	Group4,Conf,Group3,Group2
	aa a 1 o oo			Showing results 1 - 9 of	f 9 total results			5 10 20 50

Figure 6: Comm Plan navigation

2. *(Optional)* To access a net's advanced frequency settings, on Nets, select Show Advanced View ([®]).

3. Select Add Net (+).

Comm Plan (Limport) (B. Export)									
Add net Image: Constraint of the second s									
Name *	Description 🗢	Frequency (Hz) 🗢	Waveform 🗢	Crypto 🗢	Freqhop 🕏	Satcoms 🗢	Net Groups		
Secure1	Secure Radio Net	104,000,000	FM	KY58	None	None			
RNet3	Radio Net3	103,000,000	FM	None	None	None			
RNet2	Radio Net2	102,000,000	FM	None	None	None			

Figure 7: Add a net

- 4. In Name, enter a unique name for the net.
- 5. (Optional) In **Description**, enter a brief description of the net.
- 6. **Frequency** determines the net's simulated frequency (i.e., channel) on which to receive radio communications. To enable communications, enter a nonzero value in Hertz (Hz).
- 7. Select **Waveform**, and choose a waveform modulation type.



Important: Nets require waveforms to operate. To add or edit waveforms, go to *Waveforms*.

- 8. *(Optional)* Select **Crypto**, and choose a radio encryption parameter. You can add or edit cryptography parameters on **Cryptos**.
- 9. *(Optional)* Select **Freqhop**, and choose a frequency-hopping parameter. You can add or edit frequency-hopping parameters on **Freqhops**.

10. *(Optional)* Select **Satcom**, and choose a satellite communications (SATCOM) signal. You can add or edit SATCOM signals on **Satcoms**.

Add Net		×
Name	Example Net	
Description	This is an example net.	
Frequency	123000000	
Waveform	SINCGARS	\$
Crypto	KY58	\$
Freqhop	FREQHOP1	\$
Satcom	No default	\$
	Add N	Net Close

Figure 8: Net settings

11. Select (Add Net), and the new net appears in the list:

_			criptos - riedi	iopo outcomo				
•		💼 💿 🕄 Click	on field to edit				Q	Search
				Waveforms -	Cryptos •	Frequency Hops -	Satcoms •	Net Groups 👻
	Name 🕈	Description 🗢	Frequency (Hz) 🗢	Waveform \$	Crypto 🗢	Freqhop 🗢	Satcoms 🖨	Net Groups
	Secure1	Secure Radio Net	104,000,000	FM	KY58	None	None	Group4,Group3,Group2
	RNet3	Radio Net3	103,000,000	FM	None	None	None	Group4,Group3,Group2
	RNet2	Radio Net2	102,000,000	FM	None	None	None	Group4,Group3,Group2
	RNet1	Radio Net1	101,000,000	FM	None	None	None	Group4,Group3,Group2
	ICS_Net3	Intercom Net3	103	INTERCOM	None	None	None	Group4,Conf,Group3,Group
	IC5_Net2	Intercom Net2	102	INTERCOM	None	None	None	Group4,Conf,Group3,Group
	ICS_Net1	Intercom Net1	101	INTERCOM	None	None	None	Group4,Conf,Group3,Group
_	Example Net	This is an example net.	123,000,000	SINCGARS	KY58	FREQHOP1	None	
	Coordination	Coordination Net	100	INTERCOM	None	None	None	Group4,Conf,Group3,Group

Figure 9: New net

2.2.2 Add nets to a net group

The Comm Plan allows you to group nets together in a net group. You can add a net group on both **Nets** and **Net Groups**. To assign these groups to roles on **Roles**, go to Section 2.3.3, "Add a radio" on page 16.

To add a net groups on Nets, follow these steps:

- 1. On Comm Plan, choose the nets you want to group together.
- 2. Select Net Groups (<u>Net Groups</u>), and then select Add Net Group (<u>+ Add Net Group</u>).

Comm Plan Nets Net Groups Waveforms Cryptos Freqhops Satcoms								
+	Click o	on field to edit		Waveforms	Cryptos 🔻	Frequency Hops	Q Se	Aarch 2
Name *	Description 🗢	Frequency (Hz) 🗢	Tx Frequency (Hz) 🗢	Waveform 🗢	Crypto 🗢	Freqhop 🗢	Satcoms \$	+ Add Net Group
Secure1	Secure Radio Net	104,000,000	104,000,000	FM	KY58	None	None	None
RNet3	Radio Net3	103,000,000	103,000,000	FM	None	None	None	Conf
RNet2	Radio Net2	102,000,000	102,000,000	FM	None	None	None	
RNet1	Radio Net1	101,000,000	101,000,000	FM	None	None	None	

Figure 10: Add Net Group on Nets

3. In Name, enter a unique name for the net group.

Create Netgroup	×
Name Group1	
	Add Net Close

Figure 11: Net Group name

4. Select (Add Net). Under **Net Groups**, selected nets show the new net group:

Comm Plan (± ing									
Nets Net Groups Waveforms Cryptos Freqhops Satcoms									
(+) (D) (III) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C									
								Net	
Name -	Description ₹	Frequency (Hz) ₹	Tx Frequency (Hz) ₹	Waveform ₹	Crypto ₹	Freqhop Ŧ	Satcoms ₹	Groups	
Secure1	Secure Radio Net	104,000,000	104,000,000	FM	KY58	None	None	Group1	
RNet3	Radio Net3	103,000,000	103,000,000	FM	None	None	None	Group1	
RNet2	Radio Net2	102,000,000	102,000,000	FM	None	None	None	Group1	

Figure 12: Net group assignment

To add a net group on **Net Groups**, follow these steps:

- 1. Go to Net Groups.
- 2. Select Add Net Group (+).

Comm Plan		L Import Export
Nets Net Groups	Waveforms Cryptos Freqhops Satcoms	
) Conf Name	
Group1	Conf	
	Description	

Figure 13: Add a net group on Net Groups

- 3. In **Name**, enter a unique name for the net group. The default net group name is **NetGroup***N*, where *N* is the net group number.
- 4. *(Optional)* In **Description**, enter a brief description of the net group.

Comm Plan		L Import Export
Nets Net Groups	Waveforms Cryptos Freqhops Satcoms	
+ (2) (1) (1) Conf Group2	Group2 Group2 Description This is an example net group.	

Figure 14: Net Group Name and Description

5. Under Available, choose nets to assign to the net group. Find specific nets in the search box.

	Q. Search		
Available		Assigned 17	
 ✓ Coordination ✓ Example Net ✓ ICS_Net1 ✓ ICS_Net2 ✓ ICS_Net3 ✓ RNet1 ✓ RNet2 ✓ RNet3 ✓ Secure1 	() ()	No nets have been assigned	$\underbrace{ \blacklozenge}$
Add all 🗲		← Remove all	

Figure 15: Available nets

6. Select \bigcirc . The selected nets move to **Assigned**.

	Q Search		
Available		Assigned 47 -	
No more nets available	() (*)	Coordination Granuple Net G.S.,Net1 G.S.,Net1 G.S.,Net3 G.S.,Net3 Net1 Ret4 Ret4 Ret4 Ret4 Ret4 Secure1	•
Add all 🗲		← Remove all	

Figure 16: Nets assigned to net group

Alternatively, to assign all available nets, select Add all.

7. To sort assigned nets by name or frequency, select ↓ →, and choose Name or Frequency.

	Q. Search			
Available			Assigned 17 -	
No more nets available		Coordination Example Net ICS_Net1 ICS_Net3 ICS_Net3 RNet1 RNet2 € RNet2 Secure1	Name Frequency	()
Add all 🗲			← Remove all	

Figure 17: Sort assigned nets



Note: Frequency does not display the net's frequency. To view a net's frequency, go to Nets.

2.2.3 Delete a net group

To delete a net group, follow these steps:

- 1. From the **Comm Plan**, go to **Net Groups**.
- 2. Choose a net group to delete.

3. Select Delete Selected ([®]).



Figure 18: Delete a net group



Important: Deleting a net group does not impact associated nets.

4. At the confirmation message, select delete.

2.2.4 Import or export a Comm Plan

The **Comm Plan Import** and **Export** buttons download the Comm Plan from Solo to your computer's hard drive. These buttons only capture Comm Plan-specific items (e.g., nets, net groups, waveforms, cryptos, freqhops, satcoms).

To export an entire scenario, go to "Import or export scenarios" in the Solo Quick Start Guide.

To export a Comm Plan, follow these steps:

- 1. Select Export.
- 2. The file automatically downloads to your local system. Save the file to your desktop, or edit it in comma-separated values (.csv) format.
- 3. Using email or another file-transfer method of your choice, send the .csv file to another Solo.

To import a Comm Plan, follow these steps:

- 1. Select Import.
- 2. In **Import Comm Plan**, under **From File**, find the exported .csv file on your computer.

To import a Comm Plan from an existing scenario, under **From existing Scenario**, click **Select Scenario**, and choose a scenario.

2.3 Roles

Roles are collections of radios, and radios are filled with virtual nets from the Comm Plan. Each Voisus client operator uses a role to gain access to its associated radios.

This section discusses how to:

- Add a role
- Add a radio
- Set up a scan plan

2.3.1 Add a role

To add a role, follow these steps:

1. On the left, open the scenario, and go to **Roles**.



Figure 19: Roles navigation

- 2. On Roles, select Create Role (+).
- 3. Open the new role.
- 4. (Optional) In Name, enter a unique name for the role.

5. (Optional) In **Description**, enter a description of the role.



Figure 20: Add a role

2.3.2 View network radios on Monitor

In the Voisus Client, the Monitor page displays a list of active radios in your DIS exercise. To change your DIS exercise, go to "Modify the Voisus Client's local DIS options" in the Voisus Client User Guide. On this page, you can find information about radios' frequencies, modulations, and transmit and receive statuses. This page also includes the QuickTune feature, which enables you to quickly tune to a radio in the assets panels. To learn more about QuickTune, go to "Tune network assets to preset channels" in the Voisus Client User Guide.

To turn on Radio Monitor in your role, follow these steps:

1. On the left, open the scenario, and go to **Roles**.

Training	Roles	
A Roles	+ 🛛 🗊	Truck1
品 DIS & Clients	Role_Ex1	Ce Details Ce Radios
I≡ Scenarios	Truck1	Name Truck1
↔ Licensing		Description
Network Settings		
(1) About		Radio Monitor Ovr

Figure 21: Roles navigation

2. Under Roles, choose the role connected to your client.

3. Turn Radio Monitor .

Roles	
+ 🕑 🗊	Truck1
Role_Ex1	😫 Details 🛛 🛱 Radios
	Name
Indext	Truck1
	Description
	Radio Monitor 🐽 💽

Figure 22: Turn on Radio Monitor

- 4. From your desktop, open the Voisus Client (**□**).
- 5. In the top right, go to **Open settings** (③).



Figure 23: Open settings (^(©)) navigation

6. From Settings, go to Monitor.



Figure 24: Monitor navigation

On Monitor, transmitting radios light up orange, and Status displays "Tx."



Figure 25: Transmitting radios

7. (Optional) To filter radios in the list, in Search, enter the name of a radio.

2.3.3 Add a radio

To add a new radio to Solo, follow these steps:

1. Under **Radios**, select Add Radio, and choose a radio.

Roles		
+	role_1	
role_1	🗎 Details 🛛 🛤 Ra	dios
role_2	Add Radio 💌 🖻	
ore_3	Generic Radio	Generic_Radio-1
	PRC-117F	None
	PRC-117G PRC-119 ASIP	👬 Nets 🏾 🆻 Scan Plan
	PRC-119 SIP	5
	PRC-148	
	PRC-152	
	PRC-355	

Figure 26: Add a radio

The default radio is compatible with the Voisus Client.



Important: Certain radios may be unavailable due to export restrictions. Contact <u>support@asti-usa.com</u> for more information.

- 2. Select the radio to open it.
- 3. (Optional) In Name, enter a unique name for the radio.
- 4. (Optional) In **Description**, enter a description of the radio.

role_	1
📋 Detai	ls 🙀 Radios
Add Rad	
	generic_radio: Generic_Radio-1
	Description: This is an example generic radio.

Figure 27: Radio Name and Description

5. Next to **Cipher Mode**, enable Plain Text (**PT**) or Cipher Text (**CT**). The Voisus Client for Tablets & Desktops and the simulated radio panels provide controls that allow client operators to switch between PT and CT as needed. In the Flex Client, when a radio in PT mode receives encrypted transmissions, the operator only hears static.

The Voisus Client and Virtual Battlespace (VBS) add-in do not have CT controls. The client operator cannot change this setting. When this radio receives on a CT net, a default PT mode set here could result in a "cannot receive" condition.

- 6. To group every operator sharing this role onto a single, shared radio, turn on **Share Radio**. If you select **Off**, each operator using the role has his or her own instance of this radio that only he or she can control. This feature only enables radio sharing for operators using handheld terminals (HHTs).
- 7. To include the burst of noise after a received transmission, next to **Radio Squelch Tail**, select **On**.



Figure 28: Role settings

8. On **Nets**, in the **Available** column, choose the net(s) you want to assign, and select the right arrow (). A radio with only one net is fixed (i.e., not tunable), whereas client operators can tune radios with multiple nets.

🕸 Settings	붜 Nets	🔊 Scan Plan				
		Q Search				
	Ava	ilable			Assigned 17 -	
Nets: Coordination Council ation Council ation (IS_Net1 CS_Net2 IS_Net2 RNet2 RNet2 RNet2 RNet3 Secure1 Net Groups: Groups: Council 4) (~	Conf + Coordination ICS_Net1 ICS_Net2 ICS_Net3		(†) (*)
	Ado	all →			← Remove all	
				Default Net		
				None		\$

Figure 29: Assign nets to radio

 (Optional) Sort assigned nets by their names or frequencies defined in the Comm Plan. Next to Assigned, select Sort (1.5.), and choose Name or Frequency.

Assigned 17-				
	Name			
	Frequency			

Figure 30: Sort assigned nets

- 10. (Optional) Select **Default Net**, and choose a default net.
- To enable the radio to receive by default, on Settings > Audio, next to Default Rx, select Rx. To prevent client operators from disabling the radio's Rx mode, select Lock. If Rx is cleared, Lock is disabled by default.
- 12. To enable the radio to transmit by default, next to **Default Tx**, select **Tx**. To prevent client operators from changing the radio's Tx mode, select **Lock**.



Important: *Radios cannot transmit when Rx<i> is disabled.*

- 13. To balance the audio output, next to Audio Output, select Left, Center, or Right. To prevent client operators from changing this setting, select Lock.
- 14. To assign this radio to a hardware press-to-talk (PTT) button, select **PTT Group**, and choose an option.

Most clients only use the primary PTT button. The Voisus Client for Tablets & Desktops can support four USB PTT devices, while the Flex Client can support two software PTT buttons.

2.3.4 Set up a scan plan

In Solo, you can set up a scan plan for individual radios in a role. Scan plan functionality is available for PRC-117G, PRC-152, PRC-148, and generic radios.

A scan plan cycles through a list of nets, searching for activity. When the radio detects activity, it pauses on that net. Set a **Priority Tx Net** for transmission when there's no activity, or choose a **Priority Rx Net** to scan a net more frequently. In **Scan Settings**, you can also decide how long the scanner monitors each net or hangs on a net after it senses activity. Finally, you can decide the maximum amount of time the radio holds on a constantly receiving net.

This section discusses how to:

- Add scan plan nets
- Remove scan plan nets
- Set scan plan priority nets
- Edit dwell, hang, and hold times

2.3.4.1 Add scan plan nets

To add scan plan net(s), follow these steps:

1. In a radio's settings, go to Scan Plan.



Figure 31: Scan Plan navigation

Radio Nets displays nets assigned to your radio. To add one or more net(s), under Radio Nets, choose the net(s) you want to add to the scan plan, and select the right arrow (>).



Figure 32: Add nets to scan plan

The selected nets move to Scan Plan Nets:

Radio Nets	Scan Plan Nets
Coordination Example Net ▲ ICS_Net1 RNet1 RNet2 RNet3 Conf + Group2 + Group3 + Group4 +	 □ IC5_Net2 □ IC5_Net3
Add all 🔶	← Remove all

Figure 33: Scan Plan Nets

The scan plan cannot monitor nets with frequency-hopping waveforms:

	Radio Nets		Scan Plan Nets	
This net will sc	be ignored while anning RNet1 RNet2 RNet3 Secure1 Corf + Group2 + Group3 +	() ()	C5_Net2	 ◆
	Add all 🗲		← Remove all	

Figure 34: Ignored nets

3. (Optional) To add all nets to the scan plan, under Radio Nets, select Add all.

Radio Nets	Scan Plan Nets
Coordination Example Net ▲ IGS_Net1 RNet2 RNet3 Secure1 Conf + Group3 + Group4 +	[IC5_Net2 [C5_Net3]
Add all 🗲	← Remove all

Figure 35: Add all nets to scan plan

4. *(Optional)* To add a net group to the scan plan, choose a net group, and select the right arrow ().

Radio Nets	Scan Plan Nets
ICS_Net2 ICS_Net3 RNet1 RNet2 RNet3 Secure1 ✓ Coordination ICS_Net1 ICS_Net2 ICS_Net3 Group2 + Group3 + Group4 +	No scan plan nets
Add all →	← Remove all

Figure 36: Add net group to scan plan

To add individual nets from a net group, do the following:

- a. Expand the net group.
- b. Choose the nets you want to add.

Under Radio Nets, assigned nets in a net group are grayed out.

2.3.4.2 Remove scan plan nets

To remove a specific net, under **Scan Plan Nets**, choose a net, and select the left arrow ().

Radio Nets	Scan Plan Nets
Coordination Example Net ▲ ICS_Net2	Conf + ✓ ICS_Net1 ↔
Add all 🔶	← Remove all

Figure 37: Remove a scan plan net

To remove all nets, select **Remove all**.

Settings	₩ Nets 🖌 🕏 Scan Plan			
	Q Search			
	Radio Nets		Scan Plan Nets	
Coordination		 Conf + ICS_Net1 → ← 		()
	Add all >		← Remove all	

Figure 38: Remove all scan plan nets

2.3.4.3 Set scan plan priority nets

To set scan plan priority nets, follow these steps:

- 1. On a radio's **Scan Plan**, **Priority Tx Net** sets a default net for transmission if/when the radio does not detect any activity. Select **Priority Tx Net**, and choose a net.
- 2. **Priority Rx Net** allows you to scan a net more frequently, regardless of its activity. This setting prioritizes scanning a certain net, alternating it in between each net in the scan plan. Select **Priority Rx Net**, and choose a net.

Radio Nets	Scan Plan Nets
Coordination Example Net ▲ ICS_Net2	Conf + Coordination ICS_Net1 ICS_Net2 ICS_Net3 ☐ ICS_Net1 ↓
Add all 🗲	← Remove all
	Priority Tx Net
	Priority Py Nat
	Coordination

Figure 39: Priority scan plan nets

2.3.4.4 Edit dwell, hang, and hold times

To edit a scan plan's dwell, hang, and hold times, follow these steps:

- 1. To set how long the scanner spends on each net, under **Scan Settings**, in **Dwell Time**, enter a value in seconds.
- 2. To set how long the scanner hangs on a net after a transmission or reception ends, in **Hang Time**, enter a value in seconds, where the minimum value is 1 second. If the operator responds within the defined **Hang Time**, then he or she transmits on the active net.

3. *(Optional)* Hold Time limits the time a scanner spends on a net, regardless of activity. To set the maximum amount of time on a net, select **Enabled**, and enter a value in seconds. The minimum value is 1 second.



Figure 40: Scan Settings

4. To apply your changes, restart the scenario and any applicable software clients.

2.4 DIS

Distributed Interactive Simulation (DIS) is a standard for exchanging entity state information over the network, enabling entities controlled by different hosts to interact in a common virtual training exercise. The entity state information is contained in a Protocol Data Unit (PDU), which is sent to other hosts in User Datagram Protocol (UDP) packets over the network. ASTi DIS radio entities consist of Transmitter PDUs, Signal PDUs, and Receiver PDUs.

DIS Settings								
T Networking	Configuration	👬 Exercises						
Ethernet Inter	face							
Device: Ethernet Address: 169.254.1.203 Subnet Mask: 255.255.0.0								
Network Mod	e g 🔵 Split by PDU Typ	pe 🔿 Multicast by Exercise						
IP Mode Unicast Bro	adcast 🔵 All Broadd	cast 🔵 Multicast						
Broadcast Address (169.254.255.255)								
UDP Ports								
Port Tx F	Port							
3000 3	000							

Figure 41: DIS settings

This section discusses the following topics:

- DIS Networking
- DIS Exercises
- DIS Configuration

2.4.1 DIS Networking

To set up DIS networking, follow these steps:

1. On the left, open the scenario, and go to **DIS**.

Example Scenario A	DIS Settings						
요 Roles	TNetworking						
🖧 DIS							
₿ Clients	Ethernet Interfa	ice					
i≡ Scenarios	Device: Ethernet						
😞 Licensing	Address: 169.254.1.2	Address: 169.254.1.203					
令 Backup / Restore	Subnet Mask: 255.25	55.0.0					
Network Settings	Network Mode						
 About 	Basic Networking Split by PDU Type Multicast by Exercise						

Figure 42: DIS navigation

- 2. Choose an Ethernet Interface; eth0 is the default.
- 3. Add a UDP port number. The default port number is 3000.

Software versions 5.23 and later include both Rx and Tx Ports. When you adjust the Rx port number, the Tx Port number adjusts to match. However, the ports can function separately if you adjust the Tx number to a number different from the Rx port.

UDP Ports		UDP Ports			UDP Ports		
Port Tx Port 3000 3000		Port 3005	Tx Port 3005		Port 3005	Tx Port 3007	

Figure 43: UDP ports

4. Choose and set up a Network Mode.

2.4.2 DIS Exercises

Use **Exercises** to link your scenario to a DIS exercise. To determine the proper DIS parameters, contact your exercise administrator.

DIS Set	DIS Settings							
S Network	ing 👪 Configuration	Exercises						
DIS Exercia New Exercise Exercise Nan	Ses	•						
	Exercise Name 🗢		Exercise ID 🕏					
	default_domain		(1					
	Example_Exercise		2					

Figure 44: DIS Exercises

2.4.3 DIS Configuration

To set up DIS, follow these steps:

- 1. On Configuration, select DIS Version, and choose a DIS version.
- 2. Under Site/App ID Mode, decide how to determine the DIS site and application ID:
 - *Derive from IP address*: derives the DIS site and application IDs from your IP address
 - Manually configure: enter the desired values in Site ID and Application ID below.
- 3. To add a new exercise, under **DIS Exercises**, in **New Exercise**, enter an exercise name, and select the plus sign (+).

New exercises appear under **Exercise Name**. You can create up to 254 new DIS exercises but cannot delete or edit **default_domain**.

4. Under **DIS Parameters**, enter values for **Normal Heartbeat**, **Moving Heartbeat**, and **Moving Threshold**.



Figure 45: DIS Configuration



Important: You can only edit Normal Heartbeat, Moving Heartbeat, and Moving Threshold if Manually Configure is selected.

2.4.4 DIS Modulations

Modulations overrides the default Solo DIS Transmitter PDU Modulation Type Record and manually sets signal parameters for a particular waveform. In accordance with the *IEEE 1278.1 Standard for Distributed Interactive Simulation (DIS)*, transmitter protocol data units (PDUs) incorporate a modulation type record that uniquely identifies the various sets of signal parameters determining whether two radios can communicate. The modulation type record characterizes radio modulation through four enumeration boxes:

- Major modulation
- Detail
- Radio system
- Spread spectrum

Figure 46, "DIS Modulations" below shows the **Modulations** tab:

DIS Settings								
Steworking	💑 Configuration 🛛 🚓 Exercise	s = Modulations						
DIS Modulatio	DIS Modulations + 🗵 💼 Click on field to edit							
Identifier 🗢	Mode 🗢	Major Modulation 🖨	Detail 🖨	System 🖨	Spread Spectrum 🖨			
AVCATT_FM	FM	0	1	0	0			
FM_MODIFIED	D INTERCOM	0 🖉	0	0	0			

Figure 46: DIS Modulations

Solo supports a variety of modulation types, including AM, FM, single sideband, and intercom. In a scenario's Comm Plan, the modulation type is assigned to a waveform in **Mode**.

Comm	n Plan						(1 Import Export
Nets	Net Groups	Waveforms Cr	yptos Freqhops	Satcoms				
+		3 Click on field to	edit				Q 56	earch
Name	A	Mode 🗢	Encoding 🗢	Rate 🖨	Bandwidth (Hz) 🖨	Tx Power (W) 🖨	Propagation 🖨	Rx Sensitivity (dB) 🖨
	ARS	SINCGARS	CVSD	16,000	25,000	1	None	3
	RCOM	INTERCOM	MULAW	8,000	25,000	1	None	3
HAVE	QUICK	HAVEQUICK	CVSD	16,000	25,000	1	None	3
FM-W Band	/ide-	AVCATT_FM	MULAW	8,000	5,000	1	None	3
FM-N Band	arrow-	AVCATT_FM	MULAW	8,000	25,000	1	None	3
FM		FM	MULAW	8,000	25,000	1	None	3
AM		AM	MULAW	8,000	25,000	1	None	3
«« « 1	» »»			Showing results 1 -	7 of 7 total results			5 10 20 50

Figure 47: Waveform mode

The Solo DIS Gateway maps each Solo waveform mode to a default DIS modulation type record. This mapping occurs when the Solo DIS Gateway encodes a DIS Transmitter PDU during transmission or decodes a Transmitter PDU during reception.

Waveform Mode	Modulation Type	Detail	Radio System	Spread Spectrum
AM	1	2	1	0
CW	1	3	1	0
FM	3	1	1	0
HFECCM	2	-1	7	1
HAVEQUICK	1	2	2	1
INTERCOM	0	0	0	0
LSB	1	6	1	0
SINCGARS	3	-1	6	1
SINCGARS_SC	3	1	5	0
SSBF	1	7	1	0
SATCOM	8	1	1	0
USB	1	9	1	0

Table 1, "Default DIS modulation type records" below shows default DIS modulation type records:

Table 1: Default DIS modulation type records

For more information about DIS Transmitter PDUs and Modulation Type Records, go to the following documents:

- IEEE Standard for Distributed Interactive Simulation—Application Protocols
- Simulation Interoperability Standards Organization (SISO) Enumerations for Simulation Interoperability

Based on the defaults in the table above, the Solo DIS Gateway maps DIS transmitter PDU modulation types to Solo waveform modes:



Figure 48: Waveform mapping

The first two transmitter PDUs contain default modulation type records, which Solo maps to AM and FM modes. The last transmitter PDU contains a modulation type record that Solo does not recognize. To accommodate this record, you can create a custom DIS modulation in Solo with a modulation type record matching the DIS radio.

This section discusses the following topics:

- Custom DIS modulations
- Parameter wild cards

2.4.4.1 Custom DIS modulations

To create a custom DIS modulation in Solo, follow these steps:

1. On the left, open the scenario, and go to **DIS**.



Figure 49: DIS navigation

2. Go to Modulations.

DIS Setting	gs					
Setworking	🖧 Configuration 🛛 🚓 Exercis	ses 😑 Modulations				
DIS Modulatio	Click on field to edit					
Identifier 븆	Mode 🗢	Major Modulation 🖨	Detail 🖨	System 🖨	Spread Spectrum 🖨	
AVCATT_FM	FM	0	1	0	0	
FM_MODIFIED	D INTERCOM	0 🖉	0	0	0	

Figure 50: DIS Modulations

- 3. To add a custom DIS modulation, select the plus sign (+).
- 4. In **Identifier**, enter the new mode's identifier name. In the **Comm Plan**, on **Waveform**, this identifier name appears in **Mode**.



Figure 51: Mode identifier name

- 5. Select **Mode**, and choose a mode to edit.
- 6. Enter new values for Major Modulation, Detail, System, and Spread Spectrum.
- 7. On Comm Plan, go to Waveforms, and assign the mode to a waveform.

2.4.4.2 Parameter wild cards

To create a wild card for a parameter in the DIS modulation type record, enter a negative number. The wild card applies to protocol data unit (PDU)-to-waveform (Rx) mapping, while the number following the minus sign (-) applies to waveform-to-PDU (Tx) mapping, as shown in Figure 52, "DIS wild card" below:

DIS Settin	gs					
St Networking	🖧 Configuration	🚓 Exercises	≡ Modulations			
DIS Modulatio	ONS ① Click on field to e o	dit				
Identifier 🖨		Mode 🖨	Major Modulation 🖨	Detail 🖨	System 🖨	Spread Spectrum 🖨
FM_MODIFIED		FM	0	-2	0	0
AVCATT_FM		INTERCOM	0	1	0	0

Figure 52: DIS wild card

During PDU-to-waveform mapping, the Solo DIS gateway receives any value in **Detail**. During waveform-to-PDU mapping, the Solo DIS gateway transmits the **Detail** parameter as 2.

2.5 Clients

Client Management manages the relationship among hardware and software client interfaces and the Solo. Set up clients in one of two ways:

- Allow unlisted clients to connect to the Solo, and set a default role, DIS exercise, and vehicle for all clients in the scenario. For more information about unlisted client settings, go to Section 2.5.1, "Set default options for unlisted clients" on the facing page.
- Map each client to the Solo, and assign it scenario resources. Individual clients can have differing roles, exercises, and vehicles. To add a new client, go to Section 2.5.2, "Add a software client" on page 34.

Figure 53, "Client Management" below shows Client Management:

Client Management		
Settings 🚓 Client Mapping		
Settings for Unlisted Software Clients		
✓ Allow unlisted software clients to connect?		
Default Role for unlisted clients	None	\$
Lock unlisted clients to Default Role		
Default DIS Exercise for unlisted clients	default_domain	\$

Figure 53: Client Management

This chapter discusses how to:

- Set default options for unlisted clients
- Add a software client

2.5.1 Set default options for unlisted clients

On **Client Management**, you can assign a default role, DIS exercise, or vehicle to unlisted software clients. As a result, all unlisted software clients in a scenario share the same role, DIS exercise, and vehicle.

To set default options for unlisted clients, follow these steps:

1. On the left, open the scenario, and go to Clients.

Example Scenario Comm Plan Comm Plan Roles B DIS Clients E Scenarios	Client Management Settings Glient Mapping Settings for Unlisted Software Clients Oliver Allow unlisted software clients to connect?		
A Licensing	Default Role for unlisted clients	None	\$
 Backup / Restore Metwork Settings 	Lock unlisted clients to Default Role		
About	Default DIS Exercise for unlisted clients	default_domain	\$

Figure 54: Client Management navigation

2. To allow any client to connect to Solo, under Settings for Unlisted Software Clients, select Allow unlisted software clients to connect? If cleared, only clients on Client Mapping may connect.

Client Management		
Allow unlisted software clients to connect?		
Default Role for unlisted clients	None	\$
Lock unlisted clients to Default Role		
Default DIS Exercise for unlisted clients	default_domain 4	\$

Figure 55: Settings for Unlisted Software Clients

- 3. Select **Default Role for unlisted clients**, and choose a role. Roles are set on **Roles**. For more information about role configuration, go to Section 2.3, "Roles" on page 12.
- 4. Select **Default DIS exercise for unlisted clients**, and choose an exercise. DIS exercises are set on the **DIS** page. For more information about DIS exercises, go to Section 2.4.3, "DIS Configuration" on page 26.

2.5.2 Add a software client

Client Mapping links client interfaces to scenario resources. This mapping process is required for all clients except unlisted software clients connected via **Settings for Unlisted Software Clients**. This capability also allows you to create preset software client definitions and map clients to static roles and DIS exercises.

To add a new client, follow these steps:

1. On the left, open the scenario, and go to Clients.

Example Scenario Comm Plan	Client Management		
A DIS A Clients ≔ Scenarios	Settings for Unlisted Software Clients and Allow unlisted software clients to connect?		
유 Licensing 루 Backup / Restore ● Network Settings	Default Role for unlisted clients Lock unlisted clients to Default Role	None	\$
④ About	Default DIS Exercise for unlisted clients	default_domain	\$

Figure 56: Client Management navigation

2. On Client Mapping, in Add Client, enter a unique client name (e.g., Op9b).

- 3. Choose a role for the client, and select Add Client. Roles contain the intercom and radio assets that each client uses to communicate. For more information about roles, go to Section 2.3, "Roles" on page 12.
- 4. Under Client Name, find the new client in the list.
- 5. To prevent client operators from changing the settings assigned on this page, select Lock Role.
- 6. Select **DIS Exercise**, and assign a DIS exercise to the client. Each client must use the same DIS exercise to communicate with one another. You can assign clients in a scenario to separate DIS exercises. To set DIS options, go to Section 2.4.3, "DIS Configuration" on page 26.



Note: The SINCGARS and HHT features are disabled by default. To enable either, go to *Manage* > *Features* and turn *SINCGARS Panel* or *Hand-Held Terminal ON*.

7. Launch the software client on the operator desktop or tablet. In the client's settings, enter the client name exactly as it appears in **Client Mapping**. The client automatically assumes the default resources when it connects to Solo.

Client Management				
Add Client	Add Client			
Client Name 🗢	Default Role 🗢	Lock Role	DIS Exercise 🕏	
Op7a	Role_Ex1		default_domain	
ecc. ec 1 33 35	Showing results 1 -	1 of 1 total results		5 10 20 50

Figure 57: Client Mapping

2.6 Backup / Restore

When working with Solo, you may wish to back up your settings on your local system and restore them at a later time. Alternatively, you may use this procedure to transport and restore your configurations to a Solo instance on another computer.

This section discusses how to:

- Back up a Solo instance
- Restore a Solo instance

2.6.1 Back up a Solo instance

To back up a Solo instance, follow these steps:

1. On the left, open the scenario, and go to **Backup** / **Restore**.

SOLO	i .	(Example Scenario: Idle ∨) ③
Example Scenario	Backup	Restore
요. Roles	Select the data you wish to download.	Upload a backup file.
க் DIS இ Clients	3 SELECT AII	£
I≡ Scenarios	© Settings	Drag & Drop File Here
Backup / Restore Backup / Restore	Default Scenario	Lerowse Haes
About	Ucenses	
	Scenarios	
	Example Scenario	
	🛓 Download	

Figure 58: Backup / Restore navigation

2. Under Backup, choose the resource(s) you want to back up, or click SELECT ALL.

Backup
Select the data you wish to download.
SELECT AII
☑ Settings
Active Network Interface
☐ Theme
Default Scenario
Licenses
C Scenarios
Example Scenario
🛓 Download

Figure 59: Back up Solo resources

- 3. Select Download
- 4. Save the downloaded .zip file to a secure location on your local system.

2.6.2 Restore a Solo instance

To restore a Solo instance, follow these steps:

1. On **Backup** / **Restore**, under **Restore**, select Browse Files, or drag and drop the .zip file you created in Section 2.6.1, "Back up a Solo instance" on the previous page.

Restore	
Upload a backup file.	
1	
Drag & Drop File Here	
or Browse Files	

Figure 60: Find backup file

2. Confirm you chose the correct file, and select Restore.

Restore
Upload a backup file.
VoisusSolo_Monday18-Jan12_24_49_EST.zip Remove
Restore

Figure 61: Restore backup file

3. Choose the resource(s) you want to restore, or click SELECT ALL.

Restore
Select the items you wish to restore.
Warning: Items marked with A conflict with the existing configuration. By selecting and submitting these items, they will override the existing configuration.
SELECT AII
Settings
Active Network Interface
Theme
Default Scenario
Licenses
Scenarios
Example Scenario
Submit Cancel

Figure 62: Choose resources to restore

Red items marked with a **A** conflict with existing configurations. Restoring these items overwrites existing configuration data. Please review carefully before restoring.

4. Select ^{Submit}. A notification in the top right alerts you if the restore was successful:

SOLO	1	Example Scenario: k Success X
Example Scenario	Backup	Restore Restore
요 Roles	Select the data you wish to download.	Upload a backup file.
A Clients	DESELECT AII	±
I≡ Scenarios	Settings	Drag & Drop File Here 0r
& Licensing	Active Network Interface	(Browse Files)
 ♥ Backup / Restore ● Network Settings 	Theme	
① About	Default Scenario*	

Figure 63: Successful restore

2.7 About

The **About** page includes system information about your Solo instance's version, build date, etc. You can also use this page to download system logs for troubleshooting purposes.

This section discusses how to:

- View system information
- Generate a diagnostics report

2.7.1 View system information

You may wish to view information about your Solo instance (e.g., product name, product version, build date) to troubleshoot an issue.

On the left, go to **About**.

SOLO :	
My project ^	About
L Roles L DIS L Clients I Scenarios	System Version Info Product Name Solo International Product Version 1.4.0 Build Date Friday October 25 10:37:23 AM
 Licensing Backup / Restore Network Settings About 	Diagnostics Report Issues: (Optional) Enter a description of the issue(s) you are having.
	😖 Generate Diagnostics Report

Figure 64: About navigation

About shows the Solo system's product name, version, and build date:

About	
System Version I	nfo
Product Name	Solo International
Product Version	1.4.0
Build Date	Friday October 25 10:37:23 AM

Figure 65: System Version Info

2.7.2 Generate a diagnostics report

To generate a diagnostics report, follow these steps:

- 1. *(Optional)* Under **Diagnostics Report**, in **Issues(s): (Optional)**, enter a description of the issue(s) you are experiencing.
- 2. Select Generate Diagnostics Report, and wait for the .zip file to finish downloading.

Diagnostics Report	
Issues: (Optional)	
Enter a description of the issue(s) you are having.	
🛃 Generate Diagnostics Report	

Figure 66: Send a diagnostics report to ASTi

3. Find the .zip file on your local computer, and email it to <u>support@asti-usa.com</u>.

2.8 Settings

Settings ((@) allows you to make system-wide changes to your Solo instance and access resources regarding Solo setup and operations.

This section discusses how to:

- Set Solo to dark mode
- Download Solo documentation
- Turn on password authentication
- Change the password

2.8.1 Set Solo to dark mode

To set Solo to dark mode, go to **Settings** (@) > **Set Dark-Mode**.

)	?	¢	ŝ	
Se	ttings			
Documentation				
Se	t Dark-	Mode		
	Se Do Se	⑦ Settings Documen Set Dark-	O Q Settings Documentation Set Dark-Mode	

Figure 67: Set Dark-Mode

The interface color scheme changes to dark mode:

SOLO	I		Example Scenario: Idle V	0	đ	٢
Come Pan Co	Roles	role_1 B Detail made Add Radio -			* *	

Figure 68: Dark mode

To view dark mode's color scheme before implementing it, follow these steps:

1. From the top navigation bar, go to **Settings** (a) > **Settings**.



Figure 69: Settings navigation

2. On Theme, select Dark Theme.

Settings	
Set Theme	
Light Theme	Dark Theme

Figure 70: Set Dark Theme

The interface color palette changes to dark mode:

SOLO	•		Example Scenario: Idle V	0 Q	\$
 Example Scenario ^ Comm Plan Roles Biols Clensis Escenarios Licensing Backup / Restore Network Settings About 	Settings Terme Uight Theme	Dark Theme			
	powered by ASTI			support@asti mulation Techn	-usa.com ology inc.

Figure 71: Dark mode color palette

2.8.2 Download Solo documentation

To access and download Solo documentation, follow these steps:

1. From the top navigation bar, go to **Settings** () > **Documentation**.



Figure 72: Documentation navigation

2. On **Documentation**, choose a document to download.

SOLO	I	
Example Scenario A	Documentation	
A Roles		SOLO Documentation
🖧 dis		Quick Start Guide
& Clients		🕒 User Guide
I≡ Scenarios		
& Licensing		
🛱 Backup / Restore		
Network Settings		
About		

Figure 73: Solo documentation options

2.8.3 Turn on password authentication

To enable password authentication for your Solo instance, follow this step:

1. From the top navigation bar, go to **Settings** (a) > **Settings**.

Example Scenario: Idle V	_	?	Û	\$
	Se	ettings		
	Documentation			
	Se	et Dark-	Mode	

Figure 74: Settings navigation

- 2. On Settings, go to Authentication.
- 3. On Change Authentication Setting, turn on Authentication. Solo's default password is admin.
- 4. *(Optional)* In Authentication Expiration Limit, enter a time limit for the password in hours and minutes (*HH:MM*). By default, the time limit is set to one hour.

Settings Theme Authentication				
Change Authentication	Settir	g		
Password (required to change set	ting)			
				Ξ.
Authentication 💽				
	~	~		
Authentication Expiration Limit	01	: 00	HH:MM 24hr max Set to 00:00 to disable timeout	
	*	~		
Submit				

Figure 75: Set a password

To turn off the time limit and operate indefinitely without a password protection, enter **00:00**.

5. Select ^{Submit}, and a green message states, "Authentication updated successfully!"

2.8.4 Change the password

To change Solo's password, follow these steps:

- 1. On Settings, go to Change Password.
- 2. In Old Password, enter Solo's current password. Solo's default password is admin.
- 3. In New Password, enter a unique password for Solo.

4. In Confirm Password, enter the new password again.

Setting	S			
Theme	Authentication	achange Password		
Change	Password			
Old Passwo	rd			
New Passw	ord			
Confirm Nev	w Password			
Submit				

Figure 76: Change Password

5. Select Submit, and a green notification states, "Password updated successfully!"

2.9 Help

Solo provides built-in help text that provides additional information about settings and their various uses. To turn on help text, from the top navigation bar, select **Turn Help On and Off** (⑦).

ple Scenario Exar Turn Help On and Off
--

Figure 77: Turn Help On and Off

Interface elements shaded green include help text. Hover over the shaded setting to view an explanation in the green box:

SOLO							Example Scena	rio: Idle 🔨 🗶 🗶
🖻 Example Scenario 🔨	Roll your mouse over an object outlined with	dashes to see the help information.						×
G Comm Plan								
요 Roles								
alla dis	Comm Plan							🛓 Import
& Clients	Nets Net Groups Wavefor	rms Cryptos Freghops	Satcoms					
I≡ Scenarios								
& Licensing		Click on field to edit						Q. Search
🖗 Backup / Restore								
Network Settings	Name *	Description \$	Frequency (Hz) ¢	Waveform \$	Crypto 辛	Freqhop 🗢	Satcoms 🗢	Net Groups
① About	Secure1	Secure Radio Net	104,000,000	FM	KY58	None	None	
	RNet3	Radio Net3	103,000,000	EM	None	None	None	
	RNet2	Radio Net2	102,000,000	FM	None	None	None	
	RNet1	Radio Net1	101,000,000	FM	None	None	None	
	CS_Net3	Intercom Net3	103	INTERCOM	None	None	None	Conf
	CS_Net2	Intercom Net2	102	INTERCOM	None	None	None	Conf
	C ICS_Net1	Intercom Net1	101	INTERCOM	None	None	None	Conf
	Coordination	Coordination Net	100	INTERCOM	None	None	None	Conf
	aa a 1 % 99			Showing results 1 - 8 of 8 tot	al results			5 10 20 50

Figure 78: Colored help boxes

To turn off help text, select **Turn Help On or Off** (@) again, or close the green explanation box:



Figure 79: Turn off help text

3.0 Client connection

After you configure a Comm Plan, role, and network settings, you'll need to connect the Voisus Client for Tablets & Desktops or Voisus Client to Solo.

This chapter discusses how to:

- Connect the Voisus Client for Tablets & Desktops to Solo
- Connect the Voisus Client to Solo

3.1 Connect the Voisus Client for Tablets & Desktops to Solo

To connect the Voisus Client for Tablets & Desktops to Solo, follow these steps:

- 1. From your desktop, open the Voisus Client for Tablets & Desktops (P).
- 2. In the bottom right, go to **SETTINGS**.
- 3. On **CONNECTION**, in **Client Name**, enter the client name from the client mapping you created in Solo. If your settings allow unlisted clients to connect, enter any client name.

CONNECT

- 4. Under Connect to Server, tap Solo.
- 5. To view the list of available roles on Solo, tap
- 6. Tap **Role**, and choose an operator role.

7. Tap **CONNECT** again. The green status bar confirms the client's connection to Solo and a role.

		PANEL
Connected to Sol	o as Role: role_1	
Client Name	AI-DT-7391-A	
Connect to Server IPv4 Address ASTi Cloud ID Solo	nothing	
Role	role_1	
	QUIT	DEVICE
		SETTINGS

Figure 80: CONNECTION tab

To learn more about setting up and using the Voisus Client for Tablets & Desktops, go to "Voisus Client for Tablets & Desktops" in the *Voisus Client User Guide*.

3.2 Connect the Voisus Client to Solo

To connect the Voisus Client to Solo, follow these steps:

1. In the top right, go to **Open settings** (③).



Figure 81: Open settings ([©]) navigation

2. On Connection & Setup, select Client Mode, and choose Solo.

3. In **Client Name**, enter a client name from the client mappings you created in Solo. If your **Client Management** settings allow unlisted clients to connect, you can enter a new client name here. To learn more about unlisted software clients, go to Section 2.5.1, "Set default options for unlisted clients" on page 33.

🖒 Connect	\otimes
Connection & Setup	Cancel
Status	(i) Edit connection settings
Client Mode	Solo 👻
Client Name	Operator_1
	Et Connect

Figure 82: Connect to a Solo instance

- 4. Select Connect.
- 5. Select **Operator Role**, and choose a role. To add and set up roles in Solo, go to Section 2.3, "Roles" on page 12.

Once you choose a role, the client automatically connects, and **Status** displays **Connected**.