

PLANTSCAPE SERVER

CONFIGURING SERVER ACCESS

TABLE OF CONTENTS

Areas - Overview	5
Limiting Access to the Database using Areas	5
The Decision to use Areas	5
Areas - Configuration	6
How to Enable and Define Areas.....	6
Areas – Station Area Assignment	7
How to Give Stations Access to Areas	7
Operator Configuration.....	8
Configuring Operators for use with Operator Based Security	8
Sign On Administration	10
Areas – Operator Area Assignment.....	11
How to give Operators Access to Areas.....	11
Lab Exercise - Configuring System Access.....	12

SESSION OBJECTIVES

At the end of this section of the course the student will be able to:

- Describe the use of Areas to limit the access to the database
- State that Mngr security access level overrides Area access restrictions
- Enable the Areas function
- Configure Operators
- Define Areas
- Assign Areas to Stations and Operators

REFERENCES

Knowledge Builder: Plantscape Server Configuration Guide

Areas - Overview

Limiting Access to the Database using Areas

A Plantscape Server can use Areas to limit access to the database for any user whose security level is lower than Mngr. Areas are also used to access points in remote servers when using Distributed Server Architecture (DSA).

The sections of the database that are affected by Areas are:

- the displaying of Point Detail pages
- the displaying of Custom Schematic pages
- the displaying and acknowledging of Alarms.

An Area is identified by a two character code.

When using DSA Area Codes must be unique across all Servers.

Access to each Area can be assigned, or inhibited, to each Operator or Station (depending on whether Operator Based or Station Based Security is being used) individually.

Operators or Stations can only view Alarms, Point Detail pages and Custom Displays for the Areas assigned to the Operator or Station.

The Decision to use Areas

For Servers not licenced for the DSA option Areas can be enabled or disabled very easily and their use is optional.

They should not, however, be considered to be a function that can be enabled or disabled randomly.

The decision to use Areas, or not, is best made at the start of a project since enabling Areas on a system which already has some points configured, or configuring a Point without a valid Area definition, could cause some unexpected results.

For example, if there are Point alarms already active when Areas are enabled these alarms will not observe Area restrictions.

When these alarms have cleared any new alarms on the same Points will observe Area restrictions.

System Area

All non-point items, for example, Channels, Printers and similar, are attached to a default area known as the System Area.

Points can also be attached to the System Area.

Items in the System Area are accessible to all users.

Although a System Area is created by default on each Server its Area Code is configurable individually on each Server.

Mngr security overrides Area restrictions

Area restrictions are overridden at a Station when the Station, or Operator, is at the Mngr security level.

Areas - Configuration

How to Enable and Define Areas

Attention

If the Distributed Server Architecture option is licensed then Areas cannot be disabled.

Choose **Configure**→**Areas** to display the Area Configuration page, then enable the **Areas Enabled** checkbox.

Attention

Any alarms active prior to Areas being enabled will not observe Area restrictions.

For each Area that needs to be configured a two character **Area Code** and a **Description** should be defined.

The correct Server Alias should be selected for each Area to identify its “local” Server. An incorrect selection will result in an alarm when an attempt is made to connect to a point from that Area.

The contribution of the Alarms from each Area to This Server’s Alarm Summary can be enabled or disabled.

	Area Code	Description	Server Alias	Enable Alarms
1	S1	System Area	server1a	<input checked="" type="checkbox"/>
2	A1	Server1a - A1	server1a	<input checked="" type="checkbox"/>
3	A2	Server1a - A2	server1a	<input checked="" type="checkbox"/>
4	A3	Server1a - A3	server1a	<input checked="" type="checkbox"/>
5	A4	Server1a - A4	server1a	<input checked="" type="checkbox"/>
6	A5	Server1a - A5	server1a	<input checked="" type="checkbox"/>
7	A6	Server1a - A6	server1a	<input checked="" type="checkbox"/>
8	A7	Server1a - A7	server1a	<input checked="" type="checkbox"/>
9	A8	Server1a - A8	server1a	<input checked="" type="checkbox"/>
10	A9	Server1a - A9	server1a	<input checked="" type="checkbox"/>
11			server1a	<input checked="" type="checkbox"/>
12			server1a	<input checked="" type="checkbox"/>
13			server1a	<input checked="" type="checkbox"/>
14			server1a	<input checked="" type="checkbox"/>
15			server1a	<input checked="" type="checkbox"/>
16			server1a	<input checked="" type="checkbox"/>
17			server1a	<input checked="" type="checkbox"/>
18			server1a	<input checked="" type="checkbox"/>
19			server1a	<input checked="" type="checkbox"/>
20			server1a	<input checked="" type="checkbox"/>
21			server1a	<input checked="" type="checkbox"/>

[Station Area Assignment](#) [Operator Area Assignment](#)

Area Configuration Page

continued on next page

Areas – Station Area Assignment

How to Give Stations Access to Areas

To define the areas that are assigned to a station, click on **Stations Area Assignment**.
The Station 1 Area Assignment page will be displayed:

System Configuration Station 1 Station 01 Status OK

General Area Assignment Function keys

Assigned	Area	Description	Assigned	Area	Description
1 <input checked="" type="checkbox"/>	S1	System Area	21 <input type="checkbox"/>		
2 <input checked="" type="checkbox"/>	A1	Server1a - A1	22 <input checked="" type="checkbox"/>	C1	Server2a - C1
3 <input type="checkbox"/>	A2	Server1a - A2	23 <input type="checkbox"/>	C2	Server2a - C2
4 <input type="checkbox"/>	A3	Server1a - A3	24 <input type="checkbox"/>	C3	Server2a - C3
5 <input type="checkbox"/>	A4	Server1a - A4	25 <input type="checkbox"/>	C4	Server2a - C4
6 <input type="checkbox"/>	A5	Server1a - A5	26 <input type="checkbox"/>	C5	Server2a - C5
7 <input type="checkbox"/>	A6	Server1a - A6	27 <input type="checkbox"/>	C6	Server2a - C6
8 <input type="checkbox"/>	A7	Server1a - A7	28 <input type="checkbox"/>	C7	Server2a - C7
9 <input type="checkbox"/>	A8	Server1a - A8	29 <input type="checkbox"/>	C8	Server2a - C8
10 <input type="checkbox"/>	A9	Server1a - A9	30 <input type="checkbox"/>	C9	Server2a - C9
11 <input type="checkbox"/>			31 <input checked="" type="checkbox"/>	S2	System Area - Server2a
12 <input type="checkbox"/>			32 <input type="checkbox"/>		
13 <input type="checkbox"/>			33 <input type="checkbox"/>		
14 <input type="checkbox"/>			34 <input type="checkbox"/>		
15 <input type="checkbox"/>			35 <input type="checkbox"/>		
16 <input type="checkbox"/>			36 <input type="checkbox"/>		
17 <input type="checkbox"/>			37 <input type="checkbox"/>		
18 <input type="checkbox"/>			38 <input type="checkbox"/>		
19 <input type="checkbox"/>			39 <input type="checkbox"/>		
20 <input type="checkbox"/>			40 <input type="checkbox"/>		

Station Area Assignment

Areas are assigned to Station 1 by enabling the corresponding checkboxes.

Attention

These assignments are only relevant for Stations that are configured for Station Based Security.

They also apply to this Station's default alarm/event printer if the Station is configured for Operator Base Security, but no operator is Signed On.

<Page Down> to other Stations to configure their Area Assignment.

Operator Configuration

Configuring Operators for use with Operator Based Security

When a Station has been configured for Operator Based security the Operators who will use the system need to be configured also.

Choose **Configure**→**Operators** to display the Operator Configuration Summary page:

Operator ID	Name
1 Rog	Roger Rabbit
2 Bill	William Shakespeare
3 Fred	Fred Flintstone
4 Dick	Dick Tracey
5 Ace	Snoopy, WW1 Flying Ace
6 Eric	Eric the Viking
7 Sean	Sean O'Rielly
8 Jean	Jean ?
9 Pete	Peter Pan
10 Mngr	Default Login
11 -	
12 -	
13 -	
14 -	
15 -	
16 -	
17 -	
18 -	
19 -	
20 -	

Operator Configuration Summary

To add an Operator select the next available entry on the list.

To modify an existing Operator select the required Operator ID from the list.

continued on next page

Operator Configuration.....continued

Configuring Operators for use with Operator Based Security

.....continued

The screenshot shows the 'Operator Configuration' window for 'Operator 2' named 'William Shakespeare'. The 'General' tab is selected. The 'ID' field contains 'Bill'. The 'Name' field contains 'William Shakespeare'. The 'Title' field is empty. The 'Area' field is empty. The 'Multi-user' checkbox is unchecked. The 'Password' section shows 'Password last changed' as '29-May-98' and a 'Change password' button. The 'Authority' section shows 'Security level' as 'Oper' and 'Control level' as '255'. The 'Printer Assignment' section has several checkboxes, all of which are checked: 'Print LOW alarms', 'Print HIGH alarms', 'Print URGENT alarms', 'Print Events', 'Print Delays', and 'Print Operator changes'. A large yellow gear icon is visible in the background of the form area.

Enter the new Operator's **ID** (4 characters maximum) and **Name** (30 characters maximum).

Attention

All the Operator's configuration details will be deleted if the Operator ID is deleted or modified. Ensure that the ID is defined before any other information is entered.

The **Area** field specifies that only users with access to the defined Area are allowed to change the details of this Operator.

Checking the **Multi-User** checkbox enables this operator to sign on to more than one Station simultaneously

The additional details for this Operator should be completed including the Password that the Operator will use, Security Level, Control Level, and printer assignment.

Operator Configuration.....continued

Sign On Administration

To display the Sign-On Administration page choose:

either: **Configure→Operators**
and then click the **Sign-On Admin** tab

or: **System Menu→System Configuration→Operators**
and then click the **Sign-On Admin** tab

System Configuration

- General Configuration
- Configuration Tools
- Alarming
- Security & Access
 - Operators**
 - Areas
- System Hardware
 - Connections
 - Channels
 - Controllers
 - Stations
 - Printers
 - Redundant Server
 - Distributed Servers
- Operating Displays
 - Trends
 - Groups
 - Reports
- Points & Point Scheduling
 - Points
 - Schedules
 - Acronyms
- Options
 - Applications
 - Alarm Pager
 - Downtime
 - Extended Event Archiving
 - SPQC
 - Recipes
 - Micromax SPP's & Recipes
 - Series 9000 SPP's & Recipes

Operators

Summary **Sign-On Admin**

Password Parameters

Password Expiry Period: Days *Operator passwords will expire after this time.*

Password Validation Period: Days *System will not let operators reuse any of their last 10 passwords unless the password was changed at least "Password Validation Period" days ago.*

Change Operator Configuration Security Level: *Security level required to change operator configuration.*

Number of failed logins before lockout:

Lockout time: Seconds

Password Expiry Period	The number of days after which a password will automatically expire causing a new one to be requested at Sign-On.
Password Validation Period	The user cannot reuse any of his/her last 10 passwords unless the password was changed at least "Password Validation Period" days ago.
Op Config Change Security Level	Security Access level required in order to change operator configuration(s).
Number of failed logins before lockout	The user will be locked out for "Lockout Time" seconds following this number of failed login attempts.
Lockout time	See <i>Number of failed logins before lockout</i> .

continued on next page

Areas – Operator Area Assignment

How to give Operators Access to Areas

To define the areas that are assigned to an Operator, click on the **Area Assignment** tab from the Operator Configuration page:

	Area	Description		Area	Description
1	<input type="checkbox"/>	S1 System Area	21	<input type="checkbox"/>	
2	<input type="checkbox"/>	A1 Server1a - A1	22	<input type="checkbox"/>	C1 Server2a - C1
3	<input checked="" type="checkbox"/>	A2 Server1a - A2	23	<input type="checkbox"/>	C2 Server2a - C2
4	<input type="checkbox"/>	A3 Server1a - A3	24	<input type="checkbox"/>	C3 Server2a - C3
5	<input type="checkbox"/>	A4 Server1a - A4	25	<input type="checkbox"/>	C4 Server2a - C4
6	<input type="checkbox"/>	A5 Server1a - A5	26	<input type="checkbox"/>	C5 Server2a - C5
7	<input type="checkbox"/>	A6 Server1a - A6	27	<input type="checkbox"/>	C6 Server2a - C6
8	<input type="checkbox"/>	A7 Server1a - A7	28	<input type="checkbox"/>	C7 Server2a - C7
9	<input type="checkbox"/>	A8 Server1a - A8	29	<input type="checkbox"/>	C8 Server2a - C8
10	<input type="checkbox"/>	A9 Server1a - A9	30	<input type="checkbox"/>	C9 Server2a - C9
11	<input type="checkbox"/>		31	<input type="checkbox"/>	S2 System Area - Server2a
12	<input type="checkbox"/>		32	<input type="checkbox"/>	
13	<input type="checkbox"/>		33	<input type="checkbox"/>	
14	<input type="checkbox"/>		34	<input type="checkbox"/>	
15	<input type="checkbox"/>		35	<input type="checkbox"/>	
16	<input type="checkbox"/>		36	<input type="checkbox"/>	
17	<input type="checkbox"/>		37	<input type="checkbox"/>	
18	<input type="checkbox"/>		38	<input type="checkbox"/>	
19	<input type="checkbox"/>		39	<input type="checkbox"/>	
20	<input type="checkbox"/>		40	<input type="checkbox"/>	

Operator Area Assignment

Areas are assigned to an Operator by enabling the corresponding checkboxes.

Attention

Any changes made to the Area Assignment of an Operator who is currently signed on to a Station will not be active until that Operator signs off and signs back on again.

Lab Exercise - Configuring System Access

Introduction

The purpose of this laboratory is to allow the student to configure Plantscape Server System Access by :

1. Creating an Area
2. Creating an Operator
3. Assigning Area(s) to an Operator and a Station

Ask your Course Manager for any assistance if you are not sure what you are expected to do.

Create an Area

Step	Action
1	Start these exercises by connecting to Station 2#.
2	Choose Configure → Areas from the pulldown menu. The Area Configuration page is displayed.
3	There are 255 Areas available in the database. Select the Area Number 1# and set: Area Code : B#. Server Alias : server1 (if the field is displayed) Alarms : Enabled
4	Observe on the Area Configuration page the Areas Enabled checkbox. This checkbox enables Areas for the Plantscape Server. If it is not checked consult your Course Manager to determine whether it is OK to check it and thus enable Areas for the Server.

Assign an Area to your Station

Step	Action
1	Click on Stations in the Navigation Bar and select Station 2# .
2	Click on the Area Assignment tab and ensure only Areas S1, A# and B# are checked.

continued on next page

Lab Exercise - Configuring System Access.....continued

Test your Station Area Configuration

Step	Action
1	Change to Oper access level
2	Attempt to display the Point Detail page of any point whose Point ID does not end with your Team number (that is, a point that is not in an Area assigned to your Station).
3	Look in the Message Zone section of the display. What is the message?

Create an Operator

Step	Action
1	To create an Operator click on Configure→Operators pulldown menu.
2	Select Operator Number 1# and enter a unique ID (4 characters max).
3	Select the Name field and enter a name.
4	Optionally enter a Title for the operator and define if this operator can log in at more than one station simultaneously with the Multi-User checkbox
5	Click on Change password . The Message Zone will prompt you to Enter New Password
6	Enter a 5 or 6 character password and confirm it. <div style="border: 1px solid black; padding: 10px; text-align: center; margin: 10px auto; width: fit-content;">Attention DO NOT FORGET THIS PASSWORD.</div>

continued on next page

Lab Exercise - Configuring System Access.....continued

8	In the Authority section of the display select the combo box that defines the Security level that the Operator will have. Choose Supv access level.
9	Enter a Control Level of 100.
10	Leave the Printer Assignment as defined.

Allocate an Area to a Operator

Step	Action
1	Click on the Area Assignment tab and ensure only Areas S1, A# and B# are checked.

Test your Operator Area Configuration

Step	Action
1	Connect to Station_3# (which is configured for Operator Based Security).
2	Sign on using your previously created Operator ID and Password (which was <u>not</u> given Mngr access level).
3	Attempt to display the Point Detail page of any point whose Point ID does not end with your Team number (that is, a point that is not in an Area assigned to your Operator ID).
4	Look in the Message Zone section of the display, what is the message?