

# **PLANTSCAPE SERVER STATION AND PRINTER BUILDING**

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## SESSION OBJECTIVES

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

- Start a project in Quick Builder and define the associated project properties
- Define Stations and Printers together with their associated properties
- Delete Stations and Printers from a project
- Download Stations and Printers into a PlantScape Server Realtime Database
- Connect a new Station to the Server and set up appropriate display paths

## REFERENCES

*Knowledge Builder:* Guides→Server and Client Configuration Guide

Quick Builder Online Help

# Quick Builder

## Introduction

All Non-Hybrid Controller hardware and points in a PlantScape Server are defined using the program Quick Builder.

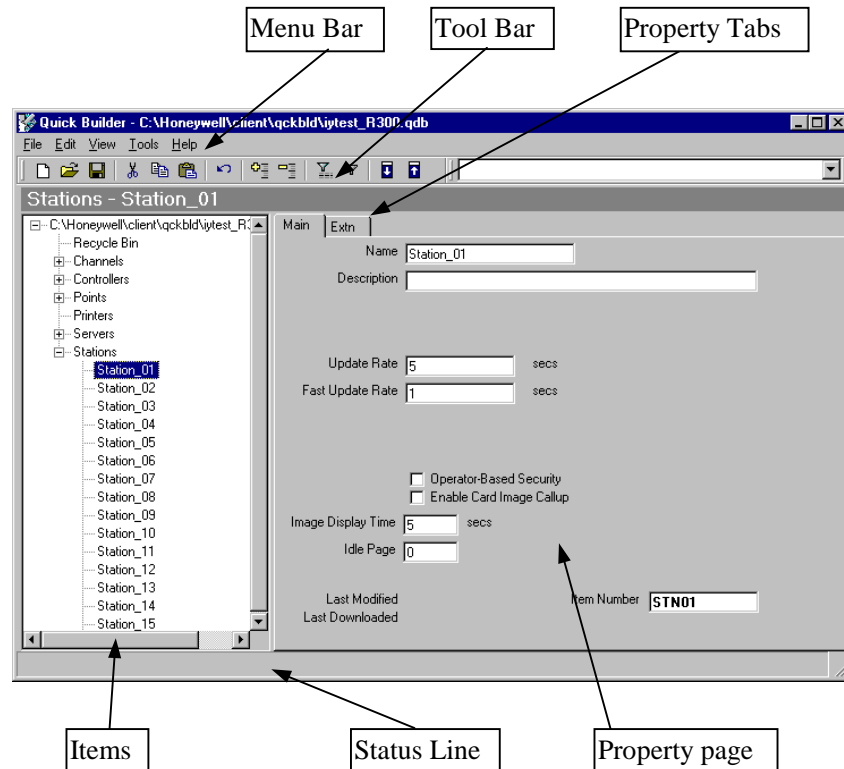
Quick Builder runs under either Windows NT or Windows'95.

Thus it can run either on your server, on another computer connected to the server, or on a stand-alone computer.

In all of these modes Quick Builder runs independently of the PlantScape Server.

This enables changes to be made to a Quick Builder database offline at any location and then downloaded to the PlantScape Server realtime database when required.

## Layout of Typical Window



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## Quick Builder.....continued

### Quick Builder Terminology

Term	Meaning
Project File	<p>The database file (c:\honeywell\client\qckbld\*.qdb) which holds all the Station, Printer, and Non-Hybrid Controller point definitions for a specific PlantScape Server.</p> <p>Only one project file can be current at any one time.</p>
Item	<p>Any of the six different types of elements that can be defined in a project file. They are:</p> <ul style="list-style-type: none"> <li>• Servers</li> <li>• Stations</li> <li>• Printers</li> <li>• Channels (required for Non-Hybrid Controllers only, not covered in this section)</li> <li>• Controllers ( “ “ “ )</li> <li>• Points (Non-Hybrid Controller points only, not covered in this section)</li> </ul> <p>In this section we will define Stations and Printers.</p>
Property	Information that defines an item.
Download	To transfer all, or some, of the items defined in the current project file to a PlantScape Server realtime database.
Upload	This applies to Non-Hybrid Controller points only and is not covered in this section.

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## Quick Builder.....continued

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### OnLine Help

Quick Builder has readily available online help.

To display context sensitive help select the required field on a property page and press <F1>.

Help for any dialogue box can be displayed by pressing **Help** in the dialogue box.

The **Help** pull-down menu provides more general access to the online help with Contents, Index and Find facilities.

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### Saving Project Files

Every time a different item is displayed in a project view any changes that have been made will be saved automatically to the project file.

Even though you do not have to manually save a project file the normal **File**→**Save** and **File**→**Save As** functions are available.

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### Selecting Item(s)

Click (Left Click) to the left of an item in the item list selects that item.

<Ctrl>+Click to the left of additional item(s) creates multiple selections.

<Ctrl>+Click to the left of a selected item cancels the selection of that item

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### Modifying Properties of a Multiple Selection

The property page will only display properties and property values common to all selected items.

Any change made to a property value will update all the selected items.

#### **Attention**

Item Names cannot be changed in this way since they must be unique.

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## Quick Builder.....continued

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### Copying and Pasting Items and Properties

**Edit→Copy** or **Edit→Cut** copies (cuts) the properties of selected item(s) to the clipboard.

**Edit→Paste** pastes the properties of item(s) on the clipboard to update selected item(s).

These functions can be used to:

- Update an existing item with the properties of another existing item
- Copy item properties to/from a Microsoft Excel spreadsheet where they can be edited using Excel's functions.

#### Attention

Care should be taken to preserve the column order within the spreadsheet and to include ALL the columns and column headings when selecting the range to copy back to the Quick Builder project.

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### Creating a Duplicate Item

To create a new item that is a duplicate of another select that item and choose:

**Edit→Duplicate Items...**

and then rename the new item and edit its properties as required.

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### Deleting Items

**Edit→Delete** or **Edit→Cut** puts selected Item into the Recycle Bin.

If the selected item is already in the Recycle Bin then Quick Builder releases the item's internal reference number making it available for use by another item.

#### Caution

Deleting items from the Recycle Bin that still exist in the Server's database will create discrepancies between the two databases.

To avoid this situation use the **Automatically Download Deletions** option when downloading other item(s) (described later in this section).

**Edit→Undelete** restores selected item from the Recycle Bin to original item grouping.

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### Pop-Up Menu

Right Click displays a pop-up menu appropriate to the selected item(s). This menu provides various editing and sorting options.

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## Quick Builder.....continued

### Downloading Options

Server Name	The hostname of the PlantScape Server holding the realtime database to which the selected items will be downloaded.  Defined under the <b>Default Server</b> → <b>Server</b> tab.	
Scope	All Items in Project	Downloads all the items in the project.
	Selected Items Only	Downloads only the item(s) that has (have) been selected from the item list.
Automatically Download Deletions	Includes all of the items in the Recycle Bin so that they will be deleted from the PlantScape Server database.	
Rebuild Scan Tables	When downloading only Stations and/or Printers this option is ignored, the scan tables will <u>not</u> be rebuilt.	
Summary	Displays a detailed list of the items to be downloaded based on the above selection(s).	

### Item Name after Downloading

Once an item has been downloaded the item Name cannot be changed. If an item's Name needs to be changed, the item must be deleted and re-created.

### Uploading Options

The Uploading function cannot be performed for either Stations or Printers.

# Status Summary

## Station Status Summary

The status of a Station can be checked by choosing:

**System Menu→System Status→Stations tab**

or

**View→System Status→Stations**

System Status

Channels



















Controllers

Stations

Printers

Server Redundancy

Distributed

	Station	Type	Status	Operator
1	<a href="#">Station 01</a>	12 fn key	 OK	
2	<a href="#">Station 02</a>	12 fn key	 Failed	
3	<a href="#">Station 03</a>	12 fn key	 Failed	
4	<a href="#">Station 04</a>	12 fn key	 Failed	
5	<a href="#">Station 05</a>	12 fn key	 Failed	
6	<a href="#">Station 06</a>	12 fn key	 Failed	
7	<a href="#">Station 07</a>	12 fn key	 Failed	
8	<a href="#">Station 08</a>	12 fn key	 Failed	
9	<a href="#">Station 09</a>	12 fn key	 Failed	
10	<a href="#">Station 10</a>	12 fn key	 Offline	
11	<a href="#">Station 11</a>	12 fn key	 OK	
12	<a href="#">Station 12</a>	12 fn key	 Failed	
13	<a href="#">Station 13</a>	12 fn key	 Failed	
14	<a href="#">Station 14</a>	12 fn key	 Failed	
15	<a href="#">Station 15</a>	12 fn key	 Failed	
16	<a href="#">Station 16</a>	12 fn key	 Failed	
17	<a href="#">Station 17</a>	12 fn key	 Failed	
18	<a href="#">Station 18</a>	12 fn key	 Failed	

List of available Station numbers

List of names of configured Stations

ID of signed on Operator if configured for Operator Based security

Interpretation of Status Indications		
LED Colour	Status Text	Description
Green	OK	Station connection OK or No Station configured
Yellow	Offline	Station stopped at remote computer
Red	Failed	Connection to Station failed

## Status Summary.....continued

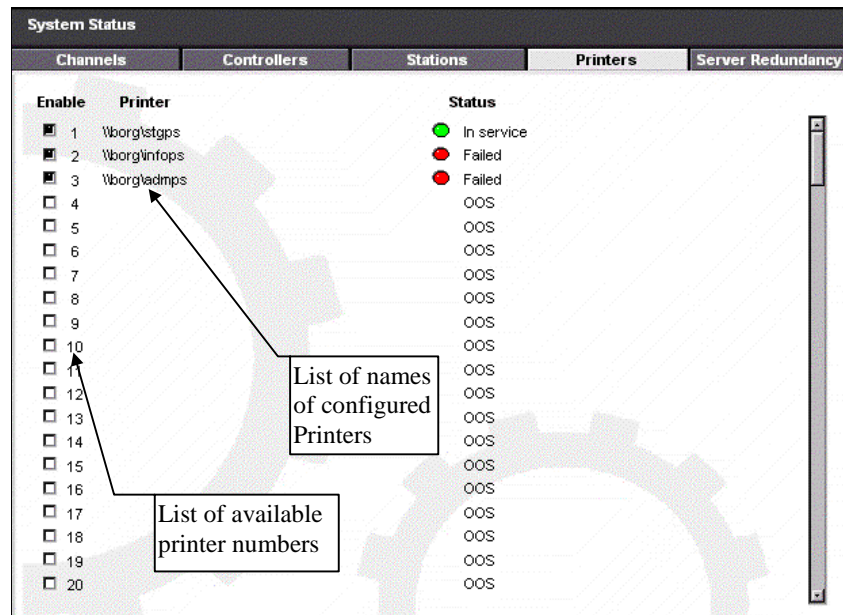
### Printer Status Summary

The status of a Printer can be checked by choosing:

**System Menu→System Status→Printers tab**

or

**View→System Status→Printers**



Interpretation of Status Indications		
LED Colour	Status Text	Description
Green	In Service	Printer queue on print server
Yellow	<i>Reason for failure</i>	Print job failed for displayed reason
Red	Failed - Printer Not Found	No permission to printer queue, or, No printer queue found
Black	Out of service	Printer disabled
Black		No printer configured.

## Lab Exercise - Station Definition

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This exercise will demonstrate the procedures necessary to define the properties associated with Stations in Quick Builder, download the station(s), connect to the new station and confirm its status.

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### Define a Station

Step	Action
1	Start Quick Builder by choosing:  <b>Start→Programs→PlantScape Server→Quick Builder</b>  or:  <b>Start→Programs→PlantScape Client Software→ Quick Builder</b>
2	Open the file training_300_srv1.qdb  Choose <b>File→Save As</b> ,  in the Save As dialogue box enter the file name <b>team#.qdb</b> and click <b>Save</b> .
3	Select the <b>Servers→Training D'base</b> item.  Under the <b>Main</b> property tab change the <b>Project Name</b> to <b>Team_#</b>  Under the <b>Server</b> property tab change the <b>Server Name</b> to:  <b>Localhost</b> if you are working at the PlantScape Server, or, <b>Server1</b> if you are working at a remote PC.  Ensure the <b>Upload</b> and <b>Download</b> paths are set to <b>c:\honeywell\client\qckbld</b>  if you are working at the PlantScape Server, or,  <b>\\server1\honeywel\client\qckbld</b>  if you are working at a remote PC.

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## Lab Exercise - Station Definition continued

<b>4</b>	Define the following two stations and their properties using the information below or that provided by your instructor:	
	<b>Item Type</b>	Static Station
	<b>Name</b>	Station_2#
	<b>Fast Update Rate</b>	1s
	<b>Operator Based Security</b>	Disabled
	<b>Item Number</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">STN2#</div> <div style="width: 80%; text-align: center;"> <b>Attention</b>  It is not normally necessary to change the item number from the default supplied by Quick Builder.  It is done on this training system only for system administration purposes </div> </div>
	<b>Item Type</b>	Static Station
	<b>Name</b>	Station_3#
	<b>Fast Update Rate</b>	1s
	<b>Operator Based Security</b>	Enabled
	<b>Item Number</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">STN3#</div> <div style="width: 80%; text-align: center;"> <b>Attention</b>  It is not normally necessary to change the item number from the default supplied by Quick Builder.  It is done on this training system only for system administration purposes </div> </div>

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## Lab Exercise - Station Definition continued

5	<p>When your definitions are complete select your two Stations and choose:</p> <p><b>Tools→Download</b></p> <p>Select:           Selected Items Only</p> <p>Uncheck:       Automatically Download Deletions, and Rebuild Scan Tables,</p> <p>and then choose <b>OK</b>.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><b>Attention</b></p> <p style="text-align: center;">Ensure that no other students are currently downloading as multiple concurrent downloads are not allowed.</p> </div>
6	<p>If your Download produces any errors examine the cause and repeat any steps as necessary.</p>
7	<p>Start Station and choose <b>Station→Setup</b></p> <p>If you are working at the PlantScape server set the:</p> <p style="padding-left: 40px;">Server Connection:   <b>Local</b></p> <p>then click on the ... button and set:</p> <p style="padding-left: 40px;">Station Number:    <b>2#</b></p> <p>If you are working at a remote PC set the:</p> <p style="padding-left: 40px;">Server Connection:   <b>Network (TCP/IP)</b></p> <p>then click on the ... button and set:</p> <p style="padding-left: 40px;">Server Name:       <b>server1</b></p> <p style="padding-left: 40px;">Station Number:    <b>2#</b></p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;"><b>Attention</b></p> <p style="text-align: center;">It is preferable to specify a server hostname rather than an IP address.</p> </div> <p>Then, in either case, choose <b>OK</b></p>

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## Lab Exercise - Station Definition      continued

<b>8</b>	<p>Choose <b>Displays</b> and add the following search path:</p> <p><b>c:\honeywell\client\abstract</b></p> <p>if you are working at the PlantScape Server, or,</p> <p><b>\\server1\honeywel\client\abstract</b></p> <p>if you are working at a remote PC.</p> <p>Move this search path to the top of the list.</p> <p>Then, in either case, choose <b>OK</b>→<b>Save</b> Enter the setup file name: <b>stn2#.stn</b></p> <p>Choose <b>OK</b> to connect to Station 2# and check the Station Status Summary to confirm status.</p>
<b>9</b>	Repeat steps 7 and 8 for <b>Station_3#</b> .
<b>10</b>	Use only Station_2# and/or Station_3# for the rest of this course.

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