Tech Note 364 How to Configure the BatchGuiConfig ActiveX® Control for Redundancy Client Switch-Over

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Introduction

When using the BatchGuiConfig ActiveX Control in a Redundancy application, the following configuration steps must be completed in order for the InTouch client to automatically switch to the correct server in the case of a switchover. The objective is to reinit the BatchGuiConfig control when a switchover occurs.

Procedure

1. Create a new Tag in the InTouch® Tagname Dictionary.

This Memory Discrete tag (Example: **ServerComm**) will monitor the Batch Server connection in case of communication loss:

Tagname Dictionary			
O Main 💿 Details 🔘 Alarms 🔘 Details & Alarms 🕖 Members			
New Restore Delete Save << Select >> Cancel Close)		
Tagname: ServerComm Type: Memory Discrete			
Group: \$System Read Write			
Comment: Batch Server Communications Loss			
Log Data Log Events Retentive Value			

Figure 1: ServerComm Tag

- 2. Add a **Condition** script using one from the ActiveX Control Browser.
- 3. Select the Init() Method / Property:

ActiveX Control Browser			
Control Name	Method / Property AltSetCancelMsgBox() AutoInit GetOcxBatchObject() Host1 Host2 Init() PortBatchMngr PortBatchMngr PortEnvMngr PortRedMngr PortRedMngr PortSecMngr PortSecMngr PortUnilinkMngr ServerConnected Term() Unit		
	OK Cancel		

Figure 2: Init() Method / Property

In this example, the Condition script is called **ServerComm**, with a **Condition** type **While False**.

This script is set to run every **1000** msec. The rate can be set to how often you want the script to run.

This script monitors the connection of the **BatchGuiConfig** in the event of communication loss.

If the connection is lost the **#BatchGuiConfigInit()**; script will initialize the control when a switchover occurs to the correct Batch server:

Condition Scripts	
Script Edit Insert Help	
Condition: ServerComm	OK
Comment:	Lancel
Condition Type: While False 💽 Every 1000 Msec Scripts used: 1	Save
HttP at ob Gui Config1 Unit():	Restore
	Convert
	Validate
	- Functions
	All
	String
	Math
	System
	Add-ons
	Misc
	Quick
	Help
ENDIF	

Figure 3: #BatchGuiConfig1.Init() Script

4. Configure the following in the **BatchGuiConfig** control:

Under the **Properties** field there is a property **ServerConnected**.

- The Range is **False** (so when the tag values changes to True, the control is initialized).
- The Tag Type is **Discrete**.
- The associated tag must point the **ServerComm** tag in the Tagname Dictionary that you created.

Property	Range	Tag Type	Associated Tag	
Host2		Message		
PortBatchMngr	9008	Integer		
PortEnvMngr	9002	Integer		
PortInfoMngr	9012	Integer		
PortRedMngr	9006	Integer		
PortSecMngr	9004	Integer		
PortUnilinkMngr	9007	Integer		
ServerConnected	False	Discrete	⊨> ServerComm	
Linit		Message		•

Figure 4: ServerConnected Property and Associated Tag

- 5. In the **BatchGuiConfig** control select the events tab and configure the following:
 - Select the event LostServerConnection and enter ResetServerComm as the script name.
 - Click the ellipsis (...) button at the right of the LostServerConnection row:

E	atchGuiConfig1	Properties	×
	Control Name Bat	ch GUI Configuration Control Properties Events	
	Event	Script	
	ActionError		
	LostServerConnect	ResetServerComm	
	StartUp		
	SystemShuttingDov	·	
l			
	(OK Cancel Apply Help	

Figure 5: LostServerConnection Event and Associated Script

You will be prompted to create an ActiveX Event Script.

6. Add the script ServerComm = 0; and click **OK** (Figure 6 below).

🔲 ActiveX	Event Scripts		
Script Edit	Insert Help		
X 🖻 🛍	62 📑 📴 🎒		
Name :	ResetServerComm		ОК
BatchGuiCo	nfig::LostServerConnection		Cancel
	-		Save
ServerCom	n = 0;	<u>^</u>	Restore
			Convert
			Validate
			Functions
			String
			Math
			System
			Add-ons
		<u> </u>	Quick
IF	ELSE AND		Help
THEN	ELSE IF OR		
ENDIF	NOT		InTrack OLE

Figure 6: ServerComm Event Script

7. Return to the **Event** tab and highlight the **Event SystemShuttingDown** property.

- 8. Add the script name **ClearServerComm** (Figure 7 below).
- 9. Click the ... button.

BatchGuiConfig1 Properties 🛛 🔀			
Control Name Batch GUI Configuration	n Control Properties Events		
Event	Script		
ActionError LostServerConnection ShutDown StartUp	ResetServerComm		
SystemShuttingDown	ClearServerComm		
ОК	Cancel Apply Help		

Figure 7: SystemShuttingDown Property

You will be prompted to create an ActiveX Event Script.

10. Add the script ServerComm = 0; and click **OK** (Figure 8 below).

ActiveX Event Scripts	
Script Edit Insert Help	
x 🖻 🛍 🗖 🖾	
Name : ClearServerComm	ОК
BatchGuiConfig::SystemShuttingDown	Cancel
	Save
ServerComm = 0;	Restore
	Convert
	Validate
	Functions
	All
	Math
	System
	Add-ons
	Misc
	Quick
	Help
ENDIF	

Figure 8: ServerComm Event Script

This completes the BatchGuiConfig ActiveX Control configuration.

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