

Configuration Manual For SCADA LookoutDirect 4



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Chapter 1

LookoutDirect 4

1-1 Set up OPC Server

🥶 Modbus30CFG.mdb - Modl	bus30CFG	
<u>File Edit View Go Tools H</u>	Ielp	
🗅 📽 🖓 🚰 🗢 🔶 🖻) 🐰 🖻 🖻 🖦 🦮 🏢	🚍 🔁 60° 🤋 🖶
🖃 📲 Address Space 📃	Name 🛆 Simul	late 🛛 Simple Tem 🛛 Parameterize 🗍 Location Type 👘 🔺
E Port1	AI_01 No	Input Register (wor
⊡ · III Devicel	AI_02 No	Input Register (wor
AI_01	AI_03 No	Input Register (wor
	ATAI 04 No	Input Register (won
A AL 04		
A AI 05		_
AI_06	Name: Devicel	
\Lambda AI_07	Address: 1	🔲 Simulate
🕰 AI_08	- Device Type	- Timeouts (ms)
AI_09		1 Read: 1000 Write: 1000
	Custom	Timeouts to
A AO 03		Ontiminations
		The numbers below indicate how much unused
AO_05		data can be transferred in one message to merge
🕂 AO_06	Parameters:	together addresses that are close but not adjacent.
- 🕂 AO_07 🗨		
Ready		40 Object(s) Mode: Run NUM

Please create the tags according to the Configuration Manual.

Later, click [File] \rightarrow [Make Active] to activate new created configuration file.

👳 Modbus30CFG.mdb - Modbus30CFG			_ 🗆 🗙
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> ools <u>H</u> elp			
New Ctrl+N	₽ <u>_</u> ;- ;:: Ⅲ 🖼	🔁 60° 🤋 🕕	
Open Ctrl+O	Simulate	Simple Tem Paran	eterize Location Type 🔺
Save <u>A</u> s	No		Input Register (wor
<u>C</u> onnection Properties	No		Input Register (wor
Export (WinCE, Embedded WinNT)	No		Input Register (wor
	No		Input Register (won 💌
CSY Export			
CSV Import			•
XML Export	Device1		
XML Export Schema	1		🔲 Simulate
XML Import		– Timeouts (ms) –––––	
XML Validate		Read: 100	0 <u>W</u> rite: 1000
<u>M</u> ake Active		Timeouts to suspend:	3 Suspend 9 period: 10000
1 Modbus30CFG.mdb			
2 Database.mdb		The numbers below in	diests how much unused
		data can be transferred	in one message to merge
Exit		together addresses that	are close but not adjacent.
AO_07 -			
Make current database active for using by OPC server	4	0 Object(s)	Mode: Run NUM

1-2 Connect OPC Client to OPC Server through LookoutDirect 4

[Start] \rightarrow [Programs] \rightarrow [DirectSOFT 4] \rightarrow [LookoutDirect Tools] \rightarrow [LookoutDirect]

E.	ookoutD	irect				_ 0	×
File	Options	<u>R</u> un	<u>H</u> elp				
03/2	21 07:16		Administrator				

Please select [File] \rightarrow [New] to create a new process.

LookoutDirect	
<u>File</u> Options <u>R</u> un <u>H</u> elp	
<u>N</u> ew Ctrl+N	
Open Ctrl+O	
Log On Ctrl+L	
Log Off Ctrl+D	
Exit	
03/21 07:17 Administrator	

Type in the Process Name.

Create Process	×
Process <u>N</u> ame:	
OPC_Client	
C State Information:	_
Save State File with Process File	
C Save State File in LookoutDirect Folder (Based on Process Nam	
Save <u>S</u> tandby State File:	
Browse	
✓ Save state file(s) every 60 (1-1440) minutes.	
Citadel Database:	
☑ Use <u>D</u> efault Values	
Computer Name:	
ryan	
Citadel Database <u>F</u> older:	
c:\directsoft4\bin\database	
OK Cancel <u>H</u> elp	

Click [OK].

F L	ookot	ıtDirec	t								
<u>F</u> ile	<u>E</u> dit	Insert	O <u>b</u> ject	Arrange	Change	Options	<u>A</u> larms	<u>W</u> indow	<u>H</u> elp		
										_	
			New Co	ntrol Pa	nel						
			Name:	Panel1							
			Title:	Control	Panel						
			– Panel	type	E	Backgroun	d color:				
			💽 No	ormal							
			O Po)pup Indus notice							
			<u> </u>	in levels	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			F			
					-	Width	: 720		OK		
			Viewi	ing: U		Heigh	it: 450		Cancel		
			Contr	ol: [0				_			
						_		_	_		
	larms	Win	8 🗆	×							

[Object] → [Create]

LookoutDirect - [C	PC_Client	*]					<u>- 🗆 ×</u>
<u>File E</u> dit Insert O <u>bj</u> e	ct Agrange	<u>C</u> hange	<u>O</u> ptions	<u>A</u> larms	<u>W</u> indow	<u>H</u> elp	
	reate	С	trl+Insert				
Control Par N	odify					<u> </u>	
Ī	elete						
E	dit Connectio	ns					
E	dit Data <u>b</u> ase			_			
C	onnection B <u>r</u>	owser					
0	bject E <u>x</u> plore	r					
				_			
<u></u>							

[Drivers] \rightarrow [OPCClient]

Select object class:	2	×
Lookout		
Categorize		
Calculation Control Display Drivers AB_Logix AB_PLC5 AB_SLC500 Ascii DeltaTau DeltaTau	Communicate with OPC (OLE for Process Control) servers.	
FieldPoint GE_Series90 MitsubishiFX Modbus Omron OPCClient Mixay Tiway Logging	File Name: opclient.cbx Date Modified: Sun Sep 05 20:51:18 2004 File Size: 135230 bytes CBX Version: LookoutDirect 4.5.1.19	
	OK Cancel	

Please choose [New Folder].

Select Location for new object	t:	×
Insert object into:	New Folder	
ryan		
ОК	Cancel	

Write down the Folder name.

Name New Folder		×
Enter a name for the new folder:		
Client		
	Cancel	

Click [OK].

Select Location for new object	i:	×
Insert object into:	New Folder	
ryan i- I OPC_Client IIIent		
, ОК	Cancel	

In the column of Server Name, please select the OPC Server you need in the list.

Name: OPCclient1
OPC Server Settings
Server Name:
C In-Process Server
• Local Server
C Remote Server
Browsing Image: Second state of the sec
OPC Group Settings
Update Rate: 100 milliseconds
Deadband: 0 percent
Poll Device = (optional)
Default Access Path: (optional)
Communication alarm priority: 8 OK Cancel Help

Create OPC Client	2	4
Name: OPCclient1		
CPC Server Settings		
Server Name: OPCTechs.Modbus30DA.3	-	
O In-Process Server		
Local Server		
○ <u>R</u> emote Server	Browse	
Browsing Image: Second state of the sec	/0 Write	
COPC Group Settings		
Update Rate: 100 milliseconds		
Deadband: 0 percent		
Poll Device =	(optional)	
Default Access Path:	(optional)	
Communication alarm priority: 8 OK Cancel	Help	

[Insert] \rightarrow [Expression]

1	Lookou	tDirect	t - [OP(C_Clien	t *]					
File	<u>E</u> dit	Insert	O <u>b</u> ject	Arrang	e <u>C</u> hange	Options	<u>A</u> larms	<u>W</u> indow	Help	
		<u>D</u> isp)layable (Object	Insert	_				
Ľ	Con	Exp	ression		Ctrl+E					
		<u>T</u> ext	t/Plate/In	iset	Ctrl+T					
ш		<u>G</u> raj	phic							
ш		<u>S</u> calı Cou	e +1 D	.1	CHAR					
ш		<u>C</u> on Posi	tione tione	81	Cult					
ш		<u>r</u> osi		_		1				
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Double click on the DataItem to be connected.

Insert expression		X
Client\0PCclient1.Port1.Device1.Al_01		>>
Display Type: numeric	Path Mode: Relative	
Signals: Paste Client\OPCclient1.Port1.Device1.Al_C)1	
🚺 Universe 💽	<u>C</u> ontents:	
Image: Provide strength Image: Provide strength	AL_02 AL_03 AL_03 AL_04 AL_05 AL_06 AL_06 AL_08 AL_08 AL_09 AL_09 AL_10 AL_01 A0_01 A0_02 A0_03	
	numeric	
	OK Cancel <u>H</u> e	ip

Click [OK].

Display numeric signal		×
Text Color Background color	Background style Plate Inset Rectangle Transparent	Frame style ○ Black ○ White ⓒ None
Minimum 0 Maximum 100 Numeric format General	C Left C Centered C Right	Display Style Digital Bar (up) Bar (down) Bar (right) Bar (left)
Font 10 pt Arial Bold	OK	Cancel

Then, please select [File] \rightarrow [Save].

LookoutDirect - [OPC_C	lient *]	
<u>File E</u> dit Insert Object Ar	range <u>C</u> hange <u>Options A</u> larms <u>W</u> indow <u>H</u> elp	
<u>N</u> ew Open <u>C</u> lose Clos <u>e</u> All <u>Save</u> Save <u>A</u> s Save As Aggregate Save All Mode Development	Cttl+N Cttl+O	<u> </u>
<u>Web Server Export Options</u> Export Web Server <u>Elles</u> <u>Print</u> Log On Log Off	, Cttl+L Cttl+D	
Exit		
		2 alarms

Please select [Options] \rightarrow [Startup] .

Loc	okou	tDirect -	[OPC_	Client]			
<u>F</u> ile <u>I</u>	<u>E</u> dit [<u>Options</u>	<u>A</u> larms	<u>W</u> indow	<u>R</u> un	Help	
		Systen	n				_
		<u>U</u> ær N	lanager				_
		Serial	<u>P</u> orts				
		<u>N</u> etwo	rk				
		<u>T</u> ime S	Synchron	ization			
		St <u>a</u> rtuj	p				
					_		
						50	
						50	
•							
03/21	08:1	4	Adminis	strator		LookoutDirect Demo	1 alarms

Click [Add].

Startup	Process	Files			×
					-
	<u>A</u> dd		<u>E</u> dit	<u>R</u> emove	
(OK		Cancel	Help	

Please choose the "opc_client.l4p" you have created.



Please select [OK].

Sta	utup Process Files	×
	C:\DirectSOFT4\Projects\Examples\LookoutDirect\op	
	<u>Add</u> <u>E</u> dit <u>R</u> emove	
	OK Cancel Help	

[New] \rightarrow [Reopen]

ĽL	ookot	uDirect -	[OPC_	Client]			
File	<u>E</u> dit	Options	<u>A</u> larms	<u>W</u> indow	<u>R</u> un	Help	
<u>N</u>	ew		Ctrl+l	N			<u> </u>
<u> </u>	pen		Ctrl+(_
<u>R</u>	eopen						
Q	lose						
C	los <u>e</u> Al	1		_			
S	ave						
S	ave <u>A</u> s.						
S	ave As	Aggregate					
S	a <u>v</u> e All						
<u>P</u> :	rint			•			
L	og On.		Ctrl+I			—	
L	og Off		Ctrl+I			50	
E	<u>x</u> it						
•							
03/;	21 08:	21 /	Adminis	strator		LookoutDirect Demo	1 alarms

Under normal condition.

Look	outDi	rect - [O	PC_Clie	nt] - [Co	ntrol)	Panel]		
📔 <u>F</u> ile	<u>E</u> dit	<u>O</u> ptions	<u>A</u> larms	<u>W</u> indow	<u>R</u> un	<u>H</u> elp		_ 8 ×
							422	
							123	
	0.00							
03/21 0	8:22	Adr	ninistrat	or			LookoutDirect Demo	1 alarms