

# **KepServer for InTouch**

#### **BridgeWare**

0505-303-1963 info@opchub.com www.opchub.com



# (1) SuiteLink / FastDDE 로 InTouch와 통신하기

 InTouch 설치 후 KepServer 설치하며, 설치 옵션에서 Native Client Interfaces > Wonderware SuiteLink 선택하여 설치





#### KepServer side Configuration

• 설치 완료 후 KepServer Configuration 실행 후 메뉴에서 File > Project Properties 선택

KEPServerEX - Configuration [C:	₩Documents and Settings₩HCS.BWHCS₩My Docum
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>R</u> untime <u>H</u> elp	
<u>N</u> ew Ctrl	+N 🗈 🛍 🗙 🛄
Open Ctrl	+O Tag Name 🛆 Address Data Type
<u>S</u> ave Ctrl	+S Mool1 K0002.01 Boolean
Save <u>A</u> s	Bool2 K0002.02 Boolean
Import CSV	Project Properties
Export CSV	
Project Properties	Note: Server Puntime may have to be reinitialized for changes to take offect
1 Simulation Driver Demo.opf	General
<u>2</u> Timesync_For_ICE_Protecetion.opf	✓ Enable FastDDE/SuiteLink connections to the server
E <u>x</u> it	
	Application Name: server_runtime
	InTouch Access Name 설정에서
	Timing 사용할 Application Name 이다
	Update active clients every 100 📩 ms.
	Restore Defaults
	확인         취소         적용(A)         도움말

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ն KE	PServerEX	– Runtim	ie			
<u>F</u> ile	<u>E</u> dit ⊻iew <u>U</u> ndo	<u>T</u> ools <u>F</u> Ctrl+Z	Buntime Help	자동으로 지정되는 원하는 이름으로 4	E Alias를 그대로 사용하거나 수정한다.	
	Devices Alias <u>M</u> ap,	 CH.V	Tag Name     Zeol_1     Alias Map	Address De Alias name 01 In R0100,00 Beeleen 100	Iouch의 Access Name 설정시 된다.	×
	<u>Copy</u> Paste	Ctrl+C Ctrl+V			Show auto-generated aliases	
[	Select <u>A</u> ll	Ctrl+A	Alias Alias1 Channel1 System	Channel1.Device1 Channel1. System	Scan Rate 0 0	<u> </u>
	<u>D</u> elete	Del	Channel1_Device1	Channel1.Device1	0	
	Properties		Channell_Device1System	Channell, Device1, _System	U	
	r igperties,		O Data Type Examples System	Data Type Examples. System	0	
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			① Data Type Examples_16 Bit Device	_K Registers Data Type Examples. 16 Bit Device. K Regist	ers 0	
			① Data Type Examples_16 Bit Device	_R Registers — Data Type Examples.16 Bit Device.R Regist	ers O	
			Data Type Examples_16 Bit Device	_S Registers — Data Type Examples.16 Bit Device.S Regist	ers O	
			Data Type Examples_8 Bit Device	Data Type Examples.8 Bit Device	0	
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			U Data Type Examples_8 Bit Device_	K Registers Data Type Examples 8 Bit Device K Registe	rs O	
			U Data Type Examples_8 Bit Device_	R Registers Data Type Examples.8 Bit Device.R Registe	rs O	~
					Close	Help



#### InTouch side Configuration

• InTouch WindowMaker 실행하여 Special > Access Names 를 클릭하여 실행한다.

🔻 InTouch - WindowM	aker – C:₩DOCUMI	ENTS AND SETTINGS₩A	DMINIST
<u>File E</u> dit <u>V</u> iew <u>A</u> rra	ange <u>T</u> ext <u>L</u> ine <u>S</u>	Special <u>W</u> indows <u>H</u> elp	
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	E = = <u>/</u> ,	Animation Links	Ctrl+A
Classic View X	Project View	Substitut <u>e</u> Tags	Ctrl+E
Windows 🔻	Windows & Script	Substitute <u>S</u> trings	Ctrl+L
Demo	🗆 🧁 Unassigne	Tag <u>n</u> ame Dictionary	Ctrl+T
	🖃 🧀 Window	Alarm <u>G</u> roups	
	Cripts	Access Na <u>m</u> es,	
		Cross Reference	
		Notify <u>C</u> lients	
		C <u>o</u> nfigure	•
		Up <u>d</u> ate Use Counts	
Corinte T		Delete <u>U</u> nused Tags	
Application		Scripts	•
🕞 Кеу		SmartSym <u>b</u> ol	•
Condition		TemplateMaker	
QuickFunctions		Application Type	
- ActiveX Event		<u>L</u> anguage	•



### InTouch – Access Name 설정



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	🔞 KEPServerEX - Co	nfiguration [(	C:₩Documents and Se	ttings₩HCS.E
Tagname Dictionary	<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools	<u>R</u> untime <u>H</u> elp	)	
🔿 Main 💿 Details 🔿 Alarms 🔿	0 📂 🗟 🛃 🌳 🛙	1 🖾 🖉	" 👗 🗈 🛍 🗙 🛄	
New Restore Delete Save	⊡ 🗣 Channel1	Tag Name	△ Address	Data Type
	Device I	2 Bool1	K0002.01	Boolean
Tagname: Kep1	E The Bit Device	e Bool2	KUUU2.U2	Boolean
f Courters	🛨 🛅 8 Bit Device		K0001	Word
Lioup: \$5ystem	🗄 🖣 Simulation Examples	t agz	10001	wold
Comment: AccessLevel				
<b>Log Data Log Events</b>	Retentive Value	Retentive Parag	meters	
Initial <u>V</u> alue:	Min EU:	-32768	Ma <u>x</u> EU: 32767	
Deadband: 0	Min Ra <u>w</u> :	-32768	Max R <u>a</u> w: 32767	
Eng Units:	Log Dead <u>b</u> and:	0	Conversion	
Access Name: KEP			<u> </u>	
Item: tag1			<u>U</u> se Tagname as Item Na	ame
<mark>────────────────────────────────────</mark>	k 로 사용할 때의 Item name 명하는 OPC Interface 시는 I	이다 <mark>. Tag1</mark> 대신 ( <mark>tem Name</mark> 이 "Ch	실제 address 인 "R0001" 로 annel1.Device1.tag1" 이 되	입력해도 된다 그로 유의 바람

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# (2) OPC 로 InTouch **와 통신하기**

- InTouch 의 Fsgateway 를 설치한다.
- 프로그램그룹에서 Wonderware > System Management Console 을 실행한다.
- 아래와 같이 Right-Click 하여 OPC Object를 추가한다.

🖉 SMC – [ArchestrA S	ystem Managemen	nt Console (BW)WDAServer ManagerWDefault Group
파일(E) 동작( <u>A</u> ) 보기(	(⊻) 도움말(∐)	
← →   🗈 💽   🔮 🖬		
hestrA System Managemen DAServer Manager Default Group Default Group Default Group Default Group Default Group Default Group Default Group	nt Console (E	Node Type: \$ROOT\$ Delimiter:
⊡	Add SuiteLink Obje	ect Group Update Interval (msec): 1000
.og Viewer	Add DDE Object Add ArchestrA Object	ect II Interval (msec): 10000
	Add InTouch Object	ct tion to Subscription Ratio: 2
	Archive Configurati	ion Set tion Message Timeout (msec): 60000
	보기( <u>V</u> )	•
	도움말( <u>H</u> )	rotocol Timer (msec): 50
· ·		Diagnostic Backlog Size: 20
		Maximum Queued Transactions: 75
		Maximum Queued Updates: 1
		DDE/SuiteLink Timer Tick (msec): 50
		Poke Mode: Optimization Mode 💌



# InTouch – FS Gateway 설정

• 아래와 같이 OPC Object (예에서는 "KepSever")를 만든다.

🌠 SMC – [ArchestrA System Mana	gement Console (BW)WDAServer ManagerWDefault GroupWLocalWArchestr/
파일(E) 동작(A) 보기(⊻) 도움말(b	)
← → 🗈 🖬 🗙 😫 🖬	
hestrA System Management Console (E DAServer Manager Default Group	Node Type: OPC Delimiter: .
Local	KepServer Parameters
Diagnostics	Server Node: localhost
	Server Name: Kepware.KEPServerEX.V5
	Reconnect Attempts: 3
	Reconnect Period: 30000 ms
	Activate Server Out of Proc

클릭하여 브라우징된 OPC Server 중에서 KepServer를 선택한다.



• Right-Click 하여 OPCGroup Object 를 추가한다.

🖉 SMC – [ArchestrA Sy	stem Management Cons	ole (B₩)₩	DAServer Manager₩Default Group₩Local₩ArchestrA.
파일(E) 동작( <u>A</u> ) 보기(⊻	() 도움말( <u>H</u> )		
← → 🗈 🖬 🗙 😫	Þ		
hestrA System Management DAServer Manager Default Group	Console (E 💎 Node	Type: OP(	C Delimiter: .
Local     ArchestrA FSGatev     ArchestrA FSGatev     ArchestrA FSGatev	KepServer Pa	arameters	
	Reset Disable KepServer	ode:	localhost
	Add OPCGroup Object	ame:	Kepware.KEPServerEX.V5
	보기(⊻) ▶	ct Attempts:	3
	삭제( <u>D</u> ) 이름 바꾸기( <u>M</u> )	pt Period:	30000 ms
	도움말(번)	ate Server Ou	t of Proc



- 아래와 같이 OPCGroup Object (예에서는 "KEPgroup")를 추가하면 세팅이 완료된다.
- 다음은 InTouch WindowMaker 에서 Access Name을 등록해야 하는데, Access Name 등록시 Topic Name 은 사용자가 등록한 "KepServer\_KEPgroup"가 된다.

💋 SMC – [ArchestrA System Manag	ement Console (B₩)₩DAServe	er Manager₩Default Group₩Local₩ArchestrA,FSGa
파일(E) 동작(A) 보기(⊻) 도움말(H)		
← → 🗈 💌 🗙 😫 🖬		
hestrA System Management Console (E DAServer Manager Default Group	Node Type: OPCGroup	Delimiter: .
E-G ArchestrA,FSGateway,1	KEPgroup Parameters Device Items	
Configuration	Device Group Name:	KepServer_KEPgroup
E-M KEPgroup	Update Rate:	1000 ms
_og Viewer	OPC Item ID Prefix:	
	Use Group Name as Access Pat	h
	Read Only	Demand Read After Poke
		Browse OPC Items





- 전 페이지에서 OPC Object와 OPCGroup Object 등록이 완료되었으면, ArchestrA FSGateway를 Right-Click 하여 Activate Server를 실행한다.
- 이제 InTouch WindowMaker에서 Access Name을 등록하여야 한다.

🖉 SMC – [ArchestrA System	Management Console (B₩)₩DASe	rver Manager₩Default Group₩Local	WArchestrA,FSGateway,1]
파일(E) 동작(A) 보기(⊻) 도	음말( <u>H</u> )		
⇔ ⇒ 🗈 🖬 🗟 😫 🖬			
hestrA System Management Cons DAServer Manager Default Group Default Group Local Default Group Configuration Default Configuration Log Viewer	sole (E Component FSGateway FSGateway [Shell] Original DAS Toolkit Activate Server Configure As Service ↓ 보기(⊻) ↓ 목록 내보내기( <u>L</u> )	Version 0213, 0151, 0000, 0000 0722, 0046, 0000, 0000 0757, 0000, 0000, 0000 0788, 0415, 0000, 0000 0788, 0210, 0000, 0000 0788, 0210, 0000, 0000	Build Date 9월 12, 2007 8월 23, 2007 August 20, 2007 9월 12, 2007 9월 12, 2007 9월 12, 2007
	도움말( <u>H</u> )		



### InTouch – Access Name 설정

	Wind	owMaker – C∶₩DOCl	JMENTS
Eile ⊻iew	<u>S</u> pec	ial <u>H</u> elp	
1 🗖 📑 🕞 1		Secur <u>i</u> ty	•
<u>4</u> <b>B</b> <i>I</i>		Animation Links,	Ctrl+A
Classic View		Substitut <u>e</u> Tags,	Ctrl+E
Windows		Substitute <u>S</u> trings	Ctrl+L
Demo		Tag <u>n</u> ame Dictionary	Ctrl+T
		Alarm <u>G</u> roups	
		Access Na <u>m</u> es	
		Cross Reference,,,	
		Notify <u>C</u> lients	
Applica		C <u>o</u> nfigure	•
- 🔙 Key		Up <u>d</u> ate Use Counts	
Data C		Delete <u>U</u> nused Tags	
QuickF		Scripts	•
Active>		SmartSym <u>b</u> ol	•
Tools		TemplateMaker	
Tagnar		Application Type	
- 🍾 Cross		<u>L</u> anguage	•
🔤 🥶 Templa	tions		
		•	l.
	3 1 #		
	3 1		0.023

- 그림과 같이 Access Name을 등록한다.
- Node Name : PC Name
- Application Name : Fsgateway
- Topic Name : "OPC Object\_OPCgroup Object" 형식으로 여기서는 KepServer\_KEPgroup 가 된다.

dd Access Name	
Access KepServer	OK
Node Name:	
BW	Cancel
Application Name:	Failover
FSgateway	
<u>T</u> opic Name:	
KepServer_KEPgroup	
Which protocol to use	bapge
	in a la companya de
C Advise all items  C Advise only active item	15

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# InTouch – Tag 작성

• 아래와 같이 태그를 등록한다.

New Restore Delete Save	<u> sk Select. &gt;&gt;</u>	Cancel	Close
agname: KepTag1	Iype: ]/	0 Integer	
Group: \$System	C Read on	y 🖲 Read)	<u>w</u> /rite
Comment:			
□ <u>L</u> og Data □ Log <u>E</u> vents	🗖 Retentive Value 🛙	Retentive	Parameters
nitial⊻alue: 0	Min EU:	-32768	Mag EU: 32767
nitial⊻alue: 0 ⊇eadband: 0	Min EU: Min Ra <u>w</u>	-32768 -32768	Max EU: 32767 Max R <u>a</u> w: 32767
nitial ⊻alue: 0 Deadband: 0 Eng Units:	Min EU: Min Ra <u>w</u> : Log Dead <u>b</u> and:	-32768 -32768 0	Max EU: 32767 Max Raw: 32767 Conversion Conversion
nitial ⊻alue: 0 ⊇eadband: 0 Eng Units: Access Na <u>m</u> e: KepServer	Min EU: Min Ra <u>w</u> : Log Deadband:	-32768 -32768 0	Max EU: 32767 Max R <u>a</u> w: 32767 Conversion © Linear © Square Root



Contact Us

# Thank You!

#### 황 철 상

Phone	0505-303-1963(평생번호) 031-346-1981,2
Mobile	010-5027-8967
Email	cs@bridgeware.kr
Home	www.opchub.com / www.bridgeware.kr

