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тм920 TM920 추가자료 - Runtime Utility Center 사용안내서

I 버전 정보

버전	날짜	수정내역	작성자
1.0	2017.03.16	첫번째 버전	임은

Table 1: Versions

선행 및 필요 조건

교육 자료	TM920 선행 학습
소프트웨어	Runtime Utility Center
하드웨어	PC, CF 카드 리더기 CF(Compact flash)

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1 안내

이 교육자료는 TM920, 8 장 '소프트웨어 백업과 복원'에 대한 실습 내용을 캡쳐한 자료입니다.

1.1 Runtime Utility Center 란?

런타임 유틸리티 센터(Runtime Utility Center)는 B&R 제어기의 진단 및 서비스에 대한 유틸리티의 범위를 제공하는 서비스 툴입니다. 런타임 유틸리티 센터의 설치 프로그램은 B&R 웹사이트에서 무료로 다운받을 수 있습니다.

1.2 프로그램 다운받는 위치

www.br-automation.com

Downloads >

Software > Automation Net/PVI > 'PVI Development Setup'

Company Industries	Technologies	Products Events	Academy	Career D	ownloads	Service		
Homepage > Downloads								
Downloads								
Product Groups	Softv	vare						
Software	Autor	nation Studio						
Industrial PCs and Panels	Auton	nation Runtime	<u>^</u>					
Control and I/O systems	Auton	nation NET/PVI	•					
Networks and fieldbus modules	Autor	nation Studio Target for						
Motion control	Simul	link						
Power supplies	✓ Remo	ote Maintenance	\sim					
Accossorios	Servo	Pump Sizina Tool						
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Results Filter by:	All Languages	- All Versions	; 🔽			Full Text Search		9
Downloads found: 11								toggle all
Automation NETION (4)		Revisions info	Version	Langua	ige Date	Size	Туре	
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PVI Development Setup PVI Development Setup PVI Development Setup		0 🛃	2.5.2.3004	- FR	08/01/	07 33.53 ME	EXE	-

1.3 Runtime Utility Center 설치

다운로드 된 설치 패키지는 설치 전에 압축을 풀어야 합니다. 그 다음 설치를 시작 할 수 있습니다. 런타임 유틸리티 센터의 사용을 위해 설치를 하는 동안에는 변경사항이 없습니다.

	😨 BBR Automation Software
Please select language / Bitte die Sprache auswählen	PVI 4.0.s.17 Automation NET uses the same interface to connect to any network, making it easy to migrate existing applications to new bus systems or networks.
English German	PVI contains: • PVI Bacissystem • Runtme Utility Conter • PVI Development Tools • PVI Sarror • PVI Hab
Conside Programming Economics bando ²⁰ provides scalability, multi-platform capability and flexibility to meet all programming rebuildments.	Version information Cick symbol to open
Enrache Languege	Language
© 2011 B&R , office@br-automation.com , Impressum	© 2011 COR , orriceGor-eutomation.com , Impressum
© 2011 B&R , office@br-outomation.com , Impressum	© 2011 BBR , office@br-outomation.com , Impressum

설치 언어 설택

"Runtime Utility Center" 선택 – 설치 시작



실습 내용

2 실습 내용

2.1 Compact flash 카드 백업

*Compact flash(이하 CF)

- 1) PC 에 CF 카드리더기를 연결하고 CF 카드를 연결합니다.
- 2) Runtime Utility Center 실행
- 3) Create/Restore a disk image 선택

Runtime Utility Center		x
Runtime Utility Center	Runtime Utility Center Image: Second structure Image: Create a Compact Flash Image: Create / Restore a disk image Image: Create a Remote Install structure	
	Generate an installation package	

4) Create image file from disk 선택, CF 카드 선택, 저장할 위치 선택 이미지 파일 확장명 "*.zp2"

Create / Restore di	sk image		×
Select a task © Create image © Restore image	: file from disk e file to disk		
Drive	Disk information Generic- Compact Flash, 512 MB		Refresh
Image file C:\Users\ime\E	esktop\RUC\Image1.zp2	Create image	Browse Close

5) 진행중/완료

Create / Restore disk in	nage			23
Select a task © Create image file © Restore image file Select dick	from disk e to disk Runtime Utility Center		×	
Drive		Creating image]	Refresh
Image file C:\Users\ime\Deskt	op\RUC\Image1.zp2			Browse
			Create image	Close

2.2 Compact flash 카드 복구

- 1) PC 에 CF 카드리더기를 연결하고 새로운 CF 카드를 연결합니다.
- 2) 앞에서 제작한 이미지 파일(*.zp2) 확인 (또는 기존에 보유하고 있는 이미지 파일 확인)

COO ~ ↓ RUC			
Organize 🔻 Include in library 🔻	Share with 🔻 🛛 Burn New folder		
☆ Favorites	Name	Date modified	Туре
💻 Desktop 🚺 Downloads 冠 Recent Places	Image1.zp2	14/3/2017 1:39 PM	ZP2 File

3) Restore image file from disk 선택, CF 카드 선택, PC 에 저장되어 있는 이미지 파일 선택 이미지 파일 확장명 "*.zp2"

Create / Restore di	isk image		×
Select a task Create image Restore image	e file from disk ge file to disk		
Select disk			
Drive	Disk information		Refresh
<u> (</u> E:)	Generic- Compact Flash, 512 MB		
Image file C:\Users\ime\D	Desktop\RUC\Image1.zp2		Browse
		Restore image	Close

4) 삭제 여부 확인 "Yes"선택

Select a task Create image file fror Restore image file to	n disk Runtime Utility Center	
Select disk Drive D G (E:) G	All data on the selected disk will be erased! Are you sure that you want to continue?	Refresh
Image file C:\Users\ime\Desktop\	Yes No RUC\Image1.zp2 Restore image	Browse

5) 진행중/완료

Create / Restore disk in	nage	23
Select a task Create image file Restore image file Select disk Drive (E:) Image file	from disk e to disk Runtime Utility Center Restoring image to disk Cancel	
C:\Users\ime\Desk	op\RUC\Image1.zp2 Browse	
	Restore image Close	

2.3 CF 카드 데이터 받아오기(로거 등)

- 1) PC 에 CF 카드리더기를 연결하고 CF 카드를 연결합니다.
- 2) "Create, modify and execute projects (.pil)"를 선택

Runtime Utility Center		×
	Runtime Utility Center	
	Create, modify and execute projects (.pil)	
25	Create a Compact Flash	
	Create / Restore a disk image	
	Generate a Remote Install structure	
	Generate an installation package	
		Exit

3) "Tools - Back up files from CompactFlash/Image file..." 선택

S Untitled - Runtime Utility Center			
File Edit View Commands Run	Tor	ols Help	
📑 💊 🖬 🔸 🖨 🖆 🔶 🖻	0	Generate installation package F8	
Commands		Create Compact Flash P9	
P		Create Compact Flash image from project Shift+F9	
🗉 🟐 Connection		Create / Restore disk image F10	
Module functions		Create ARsim Runtime Structure F11	
Service functions Service functions	ā	Create ARwin Runtime Structure Shift+F11	
Date/Time functions	9	Generate Remote Install Structure Alt+F11	
Process variable functions			
	1	Dack up tiles from Compact riash / Image file P/	
🖶 🝏 Error handling	4	Restore files to compact Flash Alt+F8	
General functions		Transfer AR in Bootstraploader mode	
PC CF functions		HDD / CF Utility	
🗄 🏐 AR CF functions	_		
ARsim/ARwin functions	1	Technology Guarding	
Generate installation nackane		View Log File Alt+F6	
A Custon and	>	Options F12	
Information	-		
			610 HUN 1000
Back up selected files from Compact Flash	to PC		CAP NUM SCRL

4) Disk 선택

Untitled - Runtime Utility Center	
File Edit View Commands Run Tools He	lp
📑 📦 📕 🖫 🖻 💼 📥 🤿 🗑 🗙 🧔	🕽 🗇 🤿 🗳 🕨 🍢 🚺 🥝 Back up files from Compact Flash / Image file
Commands 📮	
2 🙆	Select source
🗑 🚳 Connection	Oisk
🖬 🏐 Module functions	
🕫 🟐 Service functions	Select disk
Given State State Section	
Date/Time functions	(Chatta
Will functions	
Sector From From From From From From From Fr	
Sequence flow control	Disk Logical Drives Size Vendor ID Interface
🛯 🏐 General functions	1 "E:" 512 MB Generic- Compact Flash USB
PC CF functions	
AR CF functions	
Generate remote install structure	
Generate installation package	
a contra a de la contra de la c	
nformation 🏨	٤
	Show fixed disks
	OK Cancel
	Backup partition information
	Target directory
	Browse
	Start Cancel

5) 받아 올 파일 선택(ex. 로거파일)

ack up files from Compact Flash / Image file	23
Select source]
Disk	
Disk 1, 512 MB Generic- Compact Flash	Select disk
🔘 Image file	
	Browse
Contents of disk SYSTEM Partition PATA1 Pata1 Pata1 Pata1 PATA1 Pata1 Pata1 Pata1 PATA1 PATA1 Pata1 Pata1 PATA1 PATA1	Select all Deselect all
Backup partition information	
Target directory	
C:\Users\ime\Desktop\RUC	Browse
Start	Cancel

COO⊽ → RUC →			
Organize 🔻 Include in library 💌	Share with 🔻 🛛 Burn 🛛 New folder		
🔶 Favorites	Name	Date modified	Туре
🧮 Desktop	🐌 DATA1	14/3/2017 1:51 PM	File folder
鷆 Downloads	DATA2	14/3/2017 1:51 PM	File folder
🕮 Recent Places	Image1.zp2	14/3/2017 1:39 PM	ZP2 File

7) 다시 한번 로거파일 받아오기

5elect source	
O Disk	
Disk 1, 512 MB Generic- Compact Flash	Select disk
🔘 Image file	
	Browse
Contents of disk	
	Select all
☐ ☐ RPSHD	
🚊 📝 🥘 SYSROM	Deselect all
	-
	=
	-
Additional backup options	
Backup partition information	
Target directory	
	Browse
Start	Cancel

8) PC 에 저장된 것 확인, 로거의 상세 내역은 Automation Studio 에서 확인 할 수 있음.

System							
Organize 🔻 Include in library 🔻	Share with 🔻 Burn New folder						
☆ Favorites	Name	Date modified	Туре				
🧮 Desktop	📄 \$arlogsys.br	1/1/2007 1:48 AM	BR File				
🚺 Downloads							
📃 Recent Places							

2.4 Remote install structure 제작

1) PC에서 *.pil과여러 파일들로 구성된 파일 확인

프로젝트에서 pil 파일 위치(예시)

···₩<Project Name>₩Binaries₩<Configuration Name>₩<CUP Name>

						×
🏐 🔵 🔻 🔰 🕨 Computer 🕨 Defa	ult (C:) 🕨 projects 🕨 Training 🕨 M	aintainUser 🕨 Binaries 🕨 PLC 🕨 X20	CP1586 🕨	▼ 47	Search X20CP1586	
Organize 👻 Include in library 👻	Share with 🔻 🛛 Burn Nev	v folder			= -	(?
🔆 Favorites	Name	Date modified	Туре	Size		
🧮 Desktop	鷆 System	14/3/2017 1:30 PM	File folder			
鷆 Downloads	arconfig.br	14/3/2017 11:56 AM	BR File	3 KB		
归 Recent Places	asfw.br	14/3/2017 11:56 AM	BR File	232 KB		
	ashwd.br	14/3/2017 11:56 AM	BR File	2 KB		
🥽 Libraries	asieccon.br	2/7/2016 4:41 AM	BR File	10 KB		
📄 Documents	📄 astime.br	2/7/2016 4:41 AM	BR File	18 KB		
👌 Music	📄 iomap.br	14/3/2017 11:56 AM	BR File	7 KB		
📔 Pictures	LT.ofs	14/3/2017 1:30 PM	OFS File	196 KB		
📑 Videos	📄 Role.br	14/3/2017 11:56 AM	BR File	1 KB		
	📄 runtime.br	2/7/2016 4:41 AM	BR File	33 KB		
🜉 Computer	sysconf.br	14/3/2017 1:29 PM	BR File	66 KB		
	TCData.br	14/3/2017 11:56 AM	BR File	1,230 KB		
🗣 Network	Test.br	14/3/2017 1:30 PM	BR File	1 KB		
	Transfer.lst	14/3/2017 1:30 PM	LST File	1 KB		
	😼 Transfer.pil	14/3/2017 1:30 PM	PVI Instruction List	1 KB		
	User.br	14/3/2017 11:56 AM	BR File	1 KB		

2) Generate a Remote Install structure 선택

Runtime Utility Center		×
	Runtime Utility Center	
	Create, modify and execute projects (.pil)	
55	Create a Compact Flash	
	Create / Restore a disk image	
	Generate a Remote Install structure	
	Generate an installation package	
		Exit

3) 필요에 따라 USB 를 선택하고 세부 설정을 선택하고 Start 버튼 클릭

	5B		DHCP/FTP		Compact Flash
rce file (.pil)	-			CPU type	AR version
projects\Trainir	ng\Maintain	User\Binaries\PLC\X20CP:	1586\Trar Browse	XZUCP	1586 J4.25
rrent USB devi arget direc	ce tory:	E:\			Select
/endor ID:	-	Generic- Compac	ct Flash		USB device
Install/Update System versi	• Automation	N Runtime	Please note that updating requires a change in the v	Automation Runtir ersion of the syste	me or the Application generally m or application.
Install/Update Application vi	Application ersion	V1.00.26	If a given system or applic target system, no remote	ation version is no install is executed.	t different than that of the
rget identificati	ion				
rget identificati se default targe	ion et	•			
rget identificati se default targe . module system	ion et	•			
rget identificati e default targe module system) Safe B&R mo	ion et n odule syster	• (3 partitions)	Normal	B&R module syste	m (1 partition)
rget identificati e default targe module system Safe B&R mo Create partitio	ion et n odule syster	• (3 partitions)	Normal	B&R module syste	m (1 partition)
rget identificati e default targe module system Safe B&R mo Create partitio	ion et n odule system ns	n (3 partitions)	Normal ic partition sizes	B&R module syste	m (1 partition)
rget identificati e default targe module system Safe B&R mo Create partitio Fixed partitio	ion et n odule system ns on sizes		Normal ic partition sizes	B&R module syste	m (1 partition)
rget identificati se default targe module system Safe B&R mo Create partitio Fixed partitic SYSTEM	ion et n odule system ns on sizes 20		Normal	B&R module syste	m (1 partition)
rget identificati se default targe module system Safe B&R mo Create partitio Fixed partitic SYSTEM	ion et n nodule system ns an sizes 20 40		Normal ic partition sizes	B&R module syste	m (1 partition)
rget identificati e default targe module system Safe B&R mo Create partitio Fixed partitic SYSTEM DATA1	ion n ns 20 40 40		Normal ic partition sizes	B&R module syste	m (1 partition)
rget identificati re default targe module system Safe B&R mo Create partitio Fixed partitio SYSTEM DATA1 DATA2 USER	ion n ns 20 40 0	On't format partition Don't format partition	Normal ic partition sizes	B&R module syste	m (1 partition)
rget identificati re default targe module system Safe B&R mo Create partitio Fixed partitio SYSTEM DATA1 DATA2 USER Copy dire	ion et n odule system ns 20 40 40 0 ectory to US	Opritions) Oprimition Don't format partition Don't format partition Don't format partition Don't format partition En partition ER partition	Normal ic partition sizes v v v v v v	B&R module syste	m (1 partition)
rget identificati e default targe module system Safe B&R mo Create partitio Fixed partitio SYSTEM DATA1 USER USER	ion et n odule system ns 20 40 40 0 etory to US	(3 partitions) (Ont format partition Don't format partition Don't format partition Don't format partition Don't format partition ER partition	Normal ic partition sizes v	B&R module syste	m (1 partition)

2.5 PLC 와 PC 간에 네트워크 연결및 로거 다운로드

- PC 의 네트워크를 PLC 와 동일하게 설정 IP 주소는 맨 끝자리가 다르게 설정(예: PLC 는 10.0.0.1, PC 는 10.0.0.2), 동일한 Subnet mask 사용
- 2) PLC 의 IP 주소에 맞게 설정 Connection > Connection

Ghaded - Kuname Gality Center	3	
File Edit View Commands Run Tools H	felp	
🖹 🕥 📕 🌾 🖨 🛍 (<>> 🕅 🗙 🔊 .	J 🖗 🙊 🗶 🐚 🖉 🦄 🖄 🖉 🖉	
Commands #	× Instruction List	
2 8		Ethernet (TCPIP) Properties
Commands 4 Commercian Connection Connection Connection Connection Connection Connection Service functions Service functions Deterfine functions Connection Connection Connection Connection Connection Connection Connection This category contains cornection-specific commands.	X Instruction List Connection Parameters Device Type Ethernet (TCPIF) Properties Device Parameters /IF-tcpip /LOPO-11159 /SA=1 CPU Parameters /RT-10000 /AM+* /DAIP=10.0.0.2 /REPO-11160 /ANSL=1 Routing Waiting Time 30 sec Connection continues	Ethemet (TCPIP) Properties X • Specify IP address / host name 10.0.2 • Obtain an IP address automatically • Obtain destination address automatically • Obtain destination address 2 Communication timeout 10000 ms Pot number 11160 Source address 1 OK Cancel
Ready		CAP NUM SCRL

3) 로거를 다운받기 위해서 PLC information > Logger

Untitled* - Runtime Utility Center		
File Edit View Commands Run Tools Help		
Commande		
	Instruction List	
Connection Connec	Instruction List Connection "/DF=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Iogger Iogger module type Iugbad system logger module on PLC 4arlogoys module on PLC 4arlogoys module on PLC 4arlogoys module on PLC Cutput farmet Ibmi Path of the output file to be created Ic(Users)ime(Desktop(BUC)0.4 remot install structure - pli(striogoys.html Browse OK Cancel	
Ready	۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵۵ - ۲۵	NUM SCRL
		Terri a sattle [1]

4) Execute H	버튼() 클릭	
y Untitled* - Runtime Utility C	Center 📃 🖉 🐰	
File Edit View Comman	aos Run Tools Help N → I N X R J (@ Q #) N N Q N N N 0	
Commands Connection Co	• • • • • • • • • • • • • • • • • • •	
5) 실행을 위	Oth Yes 신택 * Under - Runding Unity Center * Under Runding Unity Center * Under Runding Unity Center * Under Runding	
	Ready CAPINUM SCRU	
6) 완료	Utitidat - Runtime Utility Center Image: Second	
	Close CAP NUM SCRL	

2.6 AR 버전 읽기

1) PLC information> AR version

File Edit View Commands Run Tools Help Commands Ø X Instruction list Commends Ø X Commands Ø X Instruction list Connection Connection Connection Instruction list Connection Ø X Instruction list Connection Connection Instruction list Service functions Ø X Process View reliable Instruction list Connection Ø RU situs (boot mode) Instruction list Current command Instruction list Current command Ø PLC status (boot mode) Histowace information Overall progress Current command Instruction list Ø Plc status (boot mode) Histowace information Overall progress Current command Instruction list Ø Date/Time functions: Instruction '/F=tcpip /LOPO=11159 /SA=1'', '/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1'', 'WT=30'' Connection '/F=tcpip /LOPO=11159 /SA=1'', '/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1'', 'WT=30'' Ø Date/Time functions: Instruction '/F=tcpip /LOPO=11159 /SA=1'', '/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1'', 'WT=30'' Connection '/F=tcpip /LOPO=11159 /SA=1'', '/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=111160 /ANSL=1'', 'WT=30''
Commands Commands Commands X Instruction List Commands X Commetion Module functions PLC information PC CPU type PC Cess Current command Current com
Commands 9 X Instruction List Connection "//Fetpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.2 /REPO=11160 /ANSL=1", "WT=30" LoadTextModules forLogger Service functions PLC information PC to type Memory information Memory informatio
Connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Logaf rextModule5rotLogger Logger "System", "sarlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" SWVersion PIC information Current commands Date file functions The category contains connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Logaf "System", "arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" SWVersion Current command Connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" Connection "//F=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" LoadTextModule5rotLogger LoadTextModule5rotLogger LoadTextModule5rotLogger LoadTextModule5rotLogger LoadTextModule5rotLogger SUCCESSFUL 4 Logger "System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Logger System", "\$arlogsys.html", "en" Logger System", "\$arlogsys", "html", "C\User
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Logbook Overall progress Memory information Output Process variable functions Process STARTED: 14:03:2017, 14:16:36 Information 1: @START@ ''' Compection '', IF-tcpip /LOPO-11159 /SA-1'', '', RT=10000 /AM+* /DAIP=10:0.0.2 /REPO-11160 /ANSL=1'', ''WT=30'' Connection '', IF-tcpip /LOPO-11159 /SA-1'', '', RT=10000 /AM+* /DAIP=10:0.0.2 /REPO-11160 /ANSL=1'', ''WT=30'' This category contains connections 2 Logger ''System'', ''Sarlogsys'', ''html'', ''C \Users\ime\Desktop\RUC(\% 4 remot install structure - pil\\$arlogsys.html'', ''en'' Logger ''System'', ''Sarlogsys'', ''html'', ''C \Users\ime\Desktop\RUC(\% 4 remot install structure - pil\\$arlogsys.html'', ''en'' Strue SWMeming Cl DOESCEL II
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Logger "System", "\$arlogsys", ".html", "C.\Users\ime\Desktop\RUC\8.4 remot install structure - pii\\$arlogsys.html", "en" SUCCE 5. SSWVersion U425 SSWVersion
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04.25
PROCESS FINISHED (SUCCESS): 14-03-2017, 14:16:40
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2.7 Module list 읽기

1) PLC information> Module list

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		Logger "System", "\$arlogsys", ".html", "C:\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en"
- 🍕 Delete memory		SSWVersion
Transfer AR in BTL r	node	ModuleList "C:\Users\ime\Desktop\RUC\ModuleList1.txt"
	Medule list	×
10 AB version	Module list	
PLC status (boot r	Application module	
💐 Hardware informa		
🔜 Logger	🔲 Specify an app	lication module
- 🖓 Logbook		
Tack list	-Additional options-	
Date/Time functions	🖂 C et te tra elude li	
Information	Save module li	stome
	C:\Users\im	e\Desktop\RUC\ModuleList1.txt Browse
📄 Module list		
		UK Cancel
This command reads a list of the PLC.		
-		
Ready		CAP NUM SCRL

2) PC에 생성된 파일 확인

Solution → RUC →				
Organize 🔻 🦳 Open 🔻 Sha	re with 🔻 Print Burn New folder			
🔆 Favorites	Name	Date modified		
📃 Desktop	🐌 8.2 CF image file	14/3/2017 2:02 PM		
🐌 Downloads	🐌 8.3 file backup	14/3/2017 2:02 PM		
📃 Recent Places	🐌 8.4 remot install structure - pil	14/3/2017 2:15 PM		
	ModuleList1.txt	14/3/2017 2:22 PM		

3) 생성된 파일 내용 확인

ModuleList1.txt - Notepad	
File Edit Format View Help	
[ModuleList]	<u>^</u>
<pre>\$accsec V1.02, SystemROM, Logger, 2007-01-01 00:43:50</pre>	
arconfig V1.00, SystemROM, IOConfig, 2017-03-14 11:56:12	
arlogconn V1.02, SystemROM, Logger, 2007-01-01 00:43:50	
<pre>\$arlogsys V1.02, SystemROM, Logger, 2007-01-01 00:43:51</pre>	
<pre>\$arlogusr V1.02, SystemROM, Logger, 2007-01-01 00:43:52</pre>	
asfw V1.00, SystemROM, HWD/FW, 2017-03-14 11:56:11	
ashwd V1.00, SystemROM, HWD/FW, 2017-03-14 11:56:11	
AsIecCon V4.25, UserROM, SystemTask, 2016-07-01 21:03:28	
astime V4.25, UserROM, SystemTask, 2016-07-01 21:17:39	
dbtracer V0.00, SystemROM, SystemTask, 2016-07-01 00:00:00	
\$fieldbus V1.02, SystemROM, Logger, 2007-01-01 00:43:52	=
iomap V1.00, UserROM, IOMap, 2017-03-14 11:56:12	
prfmod\$e V4.00.2, DRAM, ProfilerDef, 2007-01-01 02:17:09	
prfmod\$f V4.00.2, DRAM, ProfilerData, 2007-01-01 02:17:09	
Role V1.00, UserROM, N/A, 2017-03-14 11:56:13	
runtime V4.25, UserROM, SystemTask, 2013-11-15 07:19:09	
<pre>\$safety V1.02, SystemROM, Logger, 2007-01-01 00:43:53</pre>	
\$\$sysconf V4.25, SystemROM, PLCConfig, 2017-03-14 13:29:24	
TCData V1.00, SystemROM, N/A, 2017-03-14 11:56:16	
Test V1.00, UserROM, SPSTask, 2017-03-14 13:30:26	
<pre>\$textsys V1.02, SystemROM, Logger, 2007-01-01 00:43:54</pre>	
<pre>\$unitsys V1.02, SystemROM, Logger, 2007-01-01 00:43:55</pre>	
User V1.00, UserROM, N/A, 2017-03-14 11:56:13	
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2.8 PLC 에서 PC 로 모듈 업로드하기

응용사례: 로거파일

1) Module functions> Upload

😼 Untitled* - Runtime Utility Center
File Edit View Commands Run Tools Help
Commands Instruction List Instruction List Connection Connection LoadTextModulesforLogger Download Logger "System", "\$arlogsys", ".html", "C:\Users\ime\Desktop\RUC\8.4 remot install structure - pil\\$arlogsys.html", "en" Module fransfer Module ModuleList "C:\Users\ime\Desktop\RUC\ModuleListL.tt" Upload Upload
Upload Module
Module identification on PLC
némodětí
primod\$1
Specify an application module
Destination
Destination file name
C:\Users\ime\Desktop\RUC\prfmod\$f.br Browse
User defined module name that is written to destination file (if no entry, default name is used)
Options
Additional parameters
OK Cancel

2.9 PLC 에 사용된 변수 목록 읽기

2.9.1 전역 변수만 읽기

- 1) Variable list
- 2) 팝업 창에서 Global variables 선택

Untitled* - Runtir	me Utility Center	
File Edit View	Commands Run Tools Help	
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Commands	ά×	Instruction List
🔎 variable list	8	Connection "/IF=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30"
🔗 Variable list		
🦾 🍓 Write variable	e list to PLC	Variable List
		Type of variable list
		Ally second in a second in the later is
		C All variables used in a specified task
		Gibbai variables
		All global and local variables
		O Use template file
Information	ч×	Browse
🔰 💊 Variab	ole list	Application module
		Specify an application module
This command ger	nerates a variable list based on	
the settings being	g specified.	
		Additional options
		Save variable list to file
		Browse
		OK Cancel
Ready		CAP NUM SCRL
3) 완료	1	
3) 완료 >> Untitled* - Runti	ime Utility Center	
3) 완료 Yuntitled* - Runti File Edit Vjern	ime Utility Center	
3) 완료 ♥ Untitled* - Runti File Edit View ≧ ☜ 및 I	ime Utility Center	
3) 완료 ♥ Untitled* - Runti File Edit V Commands	ime Utility Center	
3) 완료 9 Untitled* - Runti File Edit Vy Commands variable list	ime Utility Center	
3) 완료 9 Untitled* - Runti File Edit Vy Commands Variable list Variable I	ime Utility Center	
3) 완료 Untitled* - Runti File Edit Vy Commands Variable list Variable I Write var	ime Utility Center Frocess Current command	
3) 완료 9 Untitled* - Runti File Edit Vire Commands Variable list Variable I	ime Utility Center Frocess Current command Overall progress	
3) 완료 9 Untitled* - Runti File Edit Vir Commands Variable list Variable I	ime Utility Center Connected Rue Tools Unit Process Current command Overall progress	
3) 완료 9 Untitled* - Runti File Edit View Commands 9 Variable list 9 Variable I 9 Write var	Current command Overall progress	2017, 14:28:00
3) 완료 9 Untitled* - Runti File Edit Vire Commands 9 Variable list 9 Variable I 9 Write var	Current command Overall progress	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30"
3) 완료 Juntitled* - Runti File Edit V Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-0 1: @START@'''' 2: Connection "/IF=topip /LOPO 2: Voripet jer@lobel	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF
3) 완료 Juntitled* - Runti File Edit V Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-0 1: @START@ "" 2: Connection "/IF=tcpip /LOPO- 3: VariableLisGlobal [Global Variables]	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF
3) 완료 Untitled* - Runti File Edit V Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-0 1: @START@'''' 2: Connection "/IF=tcpip /LOPO 3: VariableListGlobal [Global Variables] gRetain, GLOBAL, INT, 2, 11	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF
3) 완료 Vortitled* - Runti File Edit V Commands Variable list Variable I Write var	Current command Current command Overall progress Output PROCESS STARTED: 14-03-3 1: @START@ ''' 2: Connection "/IF=tcpip /LOPO Connection "/IF=tcpip /LOPO 3: VariableListGlobal [Global Variables] GRetain GLOBAL [INT, 2, 11] 4: @END@ ''' PROCESS EINISCHED (R) LOCO	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF
3) 완료 Juntitled* - Runti File Edit V Commands Variable list Variable I Write var	Current command Current command Overall progress Output PROCESS STARTED: 14-03-3 1: @START@ ''' 2: Connection ''/IF=tcpip /LOPO Connection ''/IF=tcpip /LOPO 3: VariableListGlobal [Global Variables] GRetain, GLOBAL INT, 2, 11 4: @END@ '''' PROCESS FINISHED (SUCCE	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF ESS): 14-03-2017, 14:28:03
3) 완료 9 Untitled* - Runti File Edit Vree Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-3 1: @START@ ''' 2: Connection ''/IF=tcpip /LOPC Connection ''/IF=tcpip /LOPC 3: VariableListGlobal [Global Variables] GRetain, GLOBAL INT, 2, 11 4: @END@ '''' PROCESS FINISHED (SUCCE	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF ESS): 14-03-2017, 14:28:03
3) 완료 9 Untitled* - Runti File Edit Vr Commands Variable list Variable I Write var	ime Utility Center	2017, 14:28:00 0=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =SS): 14-03-2017, 14:28:03
3) 완료 9 Untitled* - Runti File Edit VP Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-3 1: @START@''' 2: Connection "/IF-tcpip /LOPC Connection "/IF-tcpip /LOPC 3: VariableListGlobal [Global Variables] @Retain GLOBAL PROCESS FINISHED (SUCCE	2017. 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF ESS): 14-03-2017, 14:28:03
3) 완료 9 Untitled* - Runti File Edit Vir Commands Variable list Write var	Current command Overall progress Output PROCESS STARTED: 14-03-4 Connection "/IF-tcpip /LOPO connection "/IF-tcpip /LOPO S: VariableIsitGlobal [Global Variables] GRetain, GLOBAL, INT, 2, 11 4: @END@ "" PROCESS FINISHED (SUCCE	2017. 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF ESS): 14-03-2017, 14:28:03
3) 완료 9 Untitled* - Runti File Edit Vire Commands Variable list Variable I Write var	Current command Overall progress Output PROCESS STARTED: 14-03-2 Connection "/IF=topip /LOPO- 3: VariableListGlobal Global Variables] GRetain, GLOBAL, INT, 2, 11 4: @END@ "" PROCESS FINISHED (SUCCE	2017. 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =30"
3) 완료 9 Untitled* - Runti File Edit Vyre Commands Variable list Variable list Write var	Current command Overall progress Output PROCESS STARTED: 14-03-0 1: @START@''' 2: Connection "/IF=tcpip /LOPO- 3: VariableListGlobal [Global Variables] 9Retain, GLOBAL, INT, 2: 11 4: @END@ ''' PROCESS FINISHED (SUCCE	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =SS): 14-03-2017, 14:28:03
3) 완료 9 Untitled" - Runti File Edit View Commands Variable list Variable list Write var	Current command Current command Cverall progress Output PROCESS STARTED: 14-03-0 1: @START@ "" 2: Connection "/IF=tcpip /LOP Connection "/IF=tcpip /LOP Connection "IF=tcpip /LOP Connection UF=tcpip /LOP	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =SS): 14-03-2017, 14:28:03
3) 완료 9 Untitled" - Runti File Edit View Commands Variable list Write var	Current command Cverall progress Output PROCESS STARTED: 14-03-0 Connection "/IF=tcpip /LOP Connectio	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF ESS): 14:03-2017, 14:28:03
3) 완료 9 Untitled" - Runti File Edit View Commands Variable list Write var	Current command Cverall progress Output PROCESS STARTED: 14-03-0 Connection "/IF=tcpip /LOPO Connection "/IF=tcpip /LOPO Connection "/IF=tcpip /LOPO Giboal Variables] GRetain GLOBAL INT, 2, 11 4: @END@ "" PROCESS FINISHED (SUCCE	2017, 14:28:00 O=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" =11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF =SS): 14-03-2017, 14:28:03
3) 완료 9 Untitled" - Runti File Edit Vr Commands Variable list Write var	Current command Cverall progress Current command Overall progress Output PROCESS STARTED: 14-03-0 1: @START@ "" 2: Connection "/IF=topip /LOPO 3: VariableListGlobal [Global Variables] gRetain GLOBAL INT, 2, 11 4: @END@ "" PROCESS FINISHED (SUCCE	2017. 14:28:00 Q=11159 /SA=1". "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1". "WT=30" =11159 /SA=1". "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1". "WT=30" SUCCESSF =SS): 14-03-2017. 14:28:03 T Close

2.9.2 전역 변수와 지역 변수 읽기

- 1) Variable list
- 2) 팝업 창에서 Global variables 선택

😼 Untitled* - Runtime Utility	Center	
File Edit View Comma	inds Run Tools Help	
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Commands		
P	Variable List	SL=1". "WT=30"
Connection Module functions Service functions PLC information	Type of variable list All variables used in a specified task 	
Date/Time functions Orecess variable functions Read process variable Write process variable	© Global variables	
·····☆ Write process vari ····· ↔ Variable watch ····· ☆ Variable list ····· ☆ Write variable list	All global and local variables Use template file	
PVI functions PVI functions Sequence flow contr Information	Application module	
Variable list This command generates a the settings being specified	Additional options Save variable list to file	
	Browse OK Cancel	
Ready	< m	

3) 완료

😼 Untitled* - Run	time Utility Center	
File Edit Vie	Commande Bun Taole Usin	
2 🕤 🖓 🔚 🗋	Process	
Commands		
P	Current command	=30"
🗈 🔄 Connecti		
Module 1 Service 1	Overall progress	
🗓 🍯 PLC infor		
🗈 😋 Date/Tin	Qutput	
Process v	PROCESS STARTED: 14-03-2017 14-29-12	
- 🦂 Write	1: @START@ ""	
🧟 Write	2: Connection "/IF=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30"	
	Connection "/IF=tcpip /LOPO=11159 /SA=1", "/RT=10000 /AM=* /DAIP=10.0.0.2 /REPO=11160 /ANSL=1", "WT=30" SUCCESSF	
Write	3: VariableListAll	
🕀 😋 PVI func		
🗈 🟐 Error har	gneral, debac, int, 2, in	
Information	Count LOCAL, INT, 2, 8667	
Includion	LocalRetain, LOCAL, INT, 2, 0	
📄 Var	gRetain, GLOBAL, INT, 2, 11	
	var, LOCAL INT, 2, 0	
This command		
the settings b	GENDER SINSHED (SUCCESS): 14-03-2017. 14-29-14	
	۲ III ۲	
	Close	
		-
Ready		CAP NUM SCRL