

ABB Drives			RLON-01				3AFE	
			Operating Instruction				00364809.DOC	
Dept.	Project	Status	Date	Author	Status	Revision	Page	
	RUSINA		16.Aug 2004	MATTSSON FOLKE	APPROVED/NIJMOLEN GERT-JAN	A	1 / 5	

Quick Start-up Guide for RLON-01 LonWorks Adapter and ACS550/ACS800

Supported operation mode:

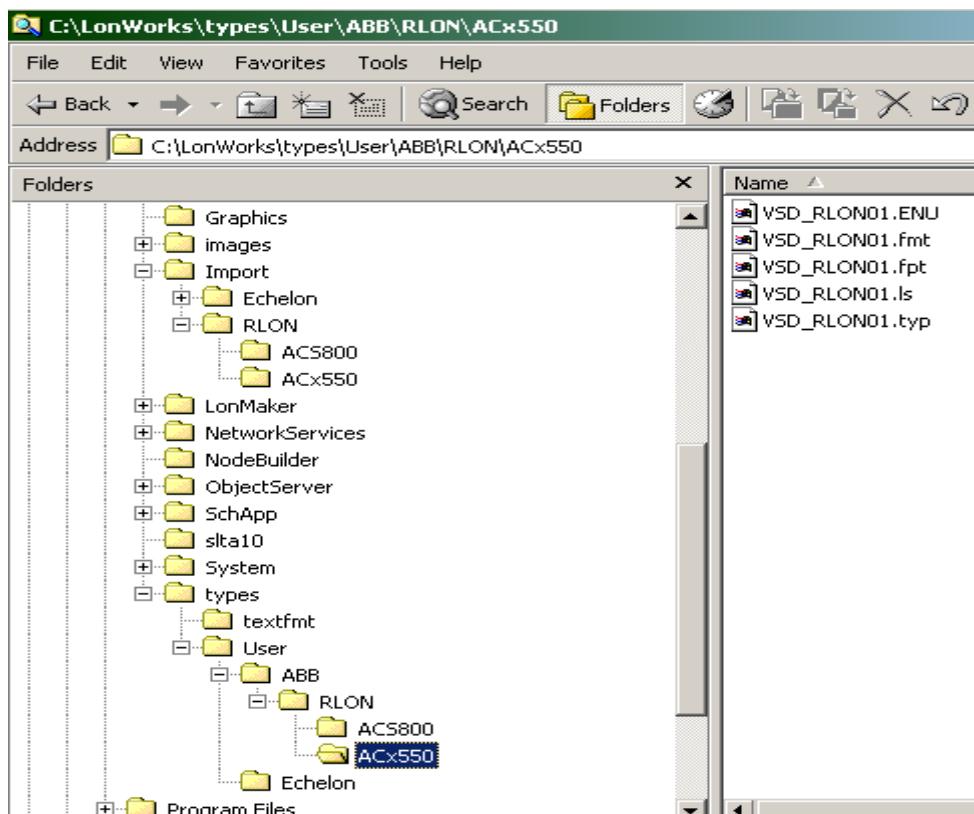
- Lonworks = GENERIC

The operation mode is set with parameter 98.07 for the ACS800.

The ACS550 detects the operation mode automatically.

Start-up sequence and parameter settings:

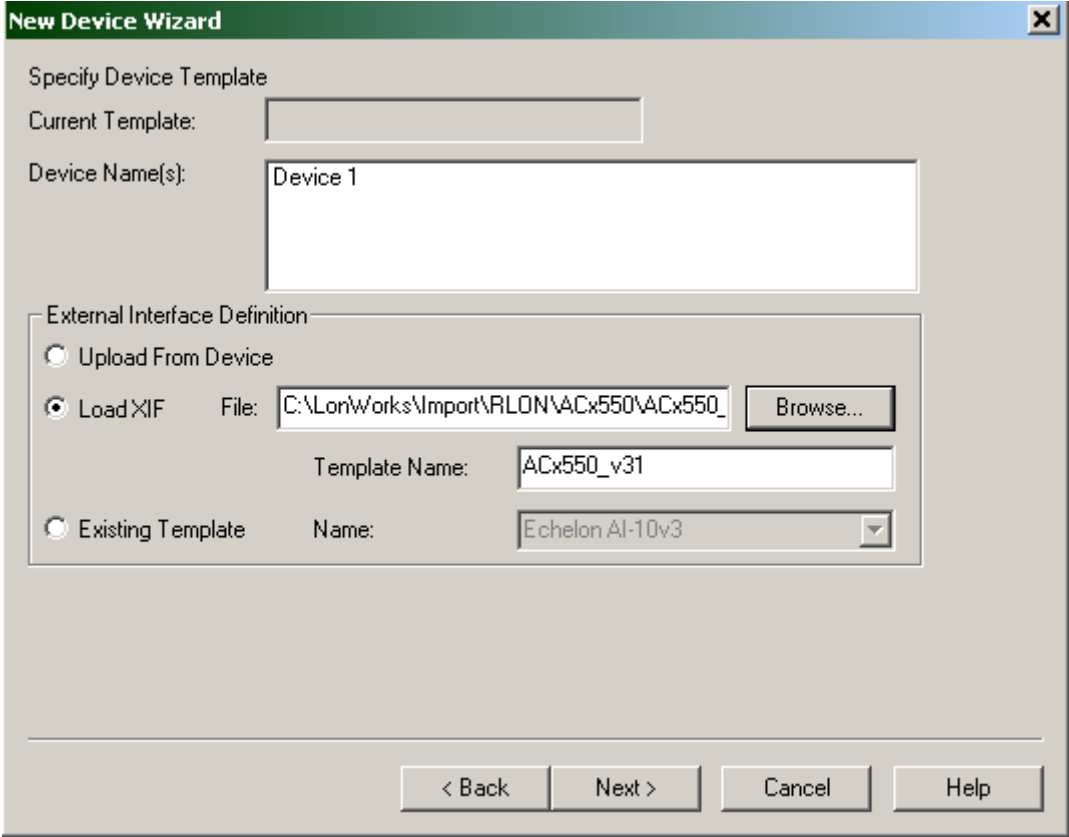
- Mount the module according to the instructions in the manual.
- Connect the fieldbus connector according to the instructions in the user's manual.
- Activate the fieldbus module with parameter 98.02.
- Set the communication profile to Generic in the ACS800 with parameter 98.07.
- Copy the RLON-01 resource files and .xif files to the appropriate folders.



Note: If motor nameplate ratings are already set in parameter group 99 of the ACS800 a refresh command must be initiated with parameter 51.27 before commissioning the RLON-01 otherwise the RLON-01 will overwrite the nominal frequency and speed setting with the default values (50Hz and 1 rpm) stored in the RLON module.

ABB Drives		RLON-01				3AFE	
		Operating Instruction				00364809.DOC	
Dept.	Project	Status	Date	Author	Status	Revision	Page
	RUSINA	16.Aug 2004		MATTSSON FOLKE	APPROVED/NIJMOLEN GERT-JAN	A	2 / 5

When commissioning e.g. an ACx550 node, use one of the .xif files in the ACx550 folder ...



... or upload the .xif file from the device.

ABB Drives			RLON-01 Operating Instruction				3AFE 00364809.DOC	
Dept.	Project	Status	Date	Author	Status	Revision	Page	
	RUSINA		16.Aug 2004	MATTSSON FOLKE	APPROVED/NIJMOLEN GERT-JAN	A	3 / 5	

New Device Wizard

Specify Device Template

Current Template:

Device Name(s):

External Interface Definition

Upload From Device

Load XIF File:

 Template Name:

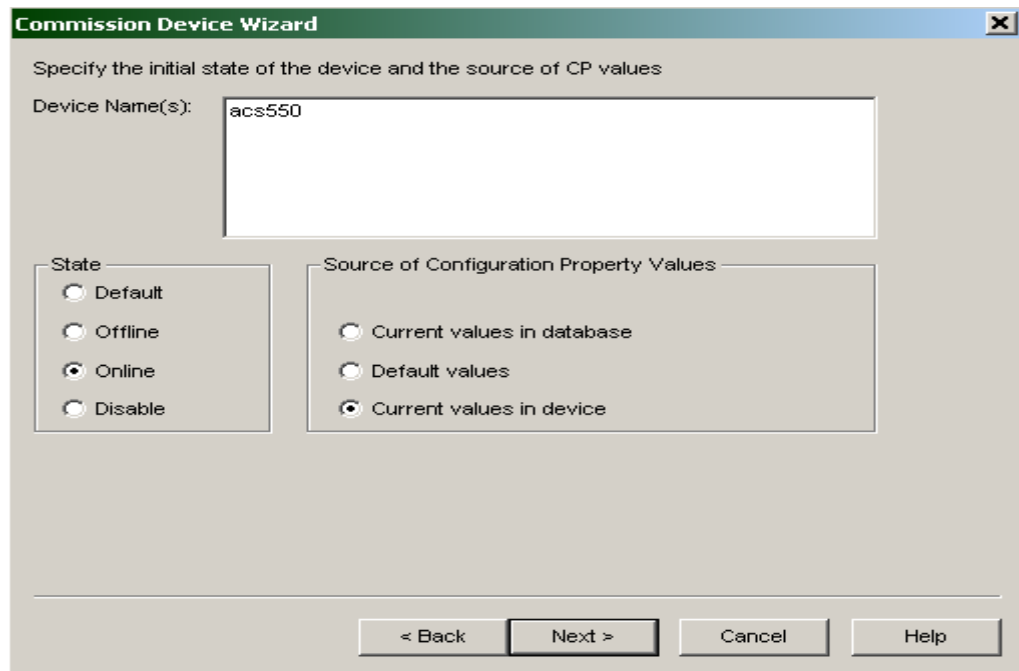
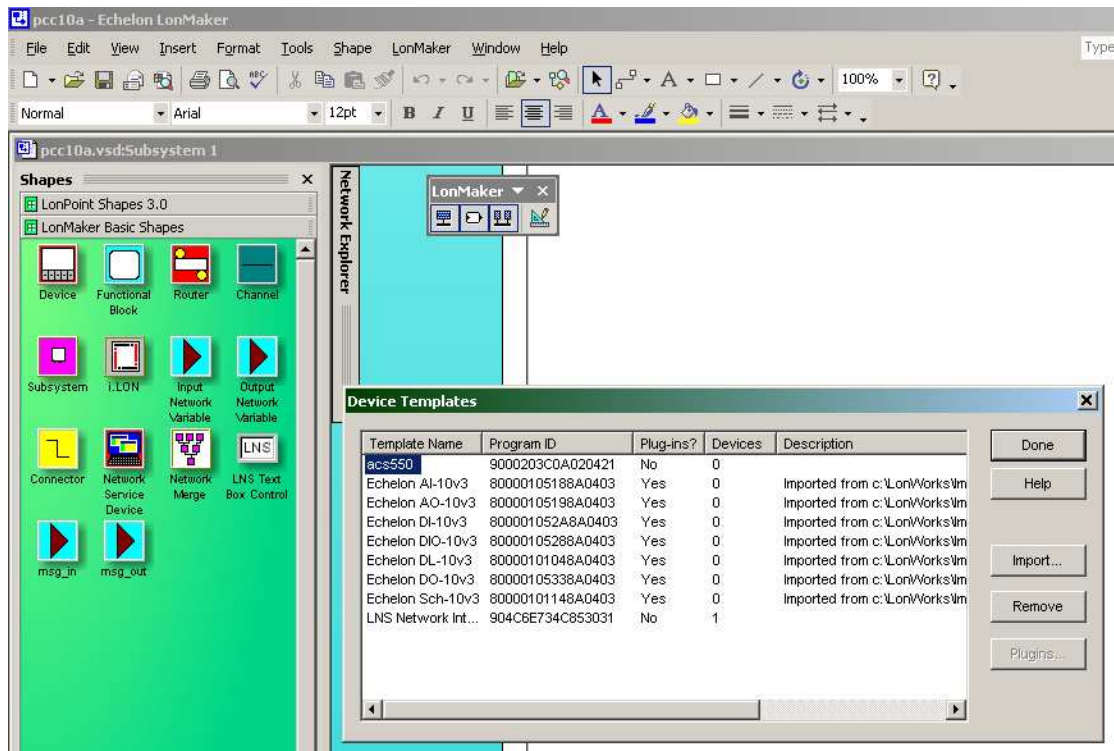
Existing Template Name:

< Back Next > Cancel Help

There are 4 different .xif files: .xif versions v.2.0, v3.1, v.4.1 and v4.4. Choose the .xif file version supported by your LonWorks tool. All the .xif file versions are made for the same product ID, so with most LON tools only one .xif version can be installed at a time.

Note: If a .xif file is changed, the old file must be removed from the Device Templates.

ABB Drives		RLON-01				3AFE	
		Operating Instruction				00364809.DOC	
Dept.	Project	Status	Date	Author	Status	Revision	Page
	RUSINA	16.Aug 2004	MATTSSON FOLKE	APPROVED/NIJMOLEN GERT-JAN	A	4 / 5	



Device state = Online

Source of Configuration Property Values = Current values in device

ABB Drives			RLON-01				3AFE	
			Operating Instruction				00364809.DOC	
Dept.	Project	Status	Date	Author	Status	Revision	Page	
	RUSINA	16.Aug	2004	MATTSSON FOLKE	APPROVED/NIJMOLEN GERT-JAN	A	5 / 5	

Then press the service pin located on the RLON-01 when the program requires it
 Drive parameter settings example to be able to start/stop, give reference and to reset a fault:

10.01 EXT1 STRT/STP/DIR	COMM.CW	(COMM in ACx550)
11.03 EXT REF1 SELECT	COMM.REF	(COMM in ACx550)
16.01 RUN ENABLE	COMM.CW	(COMM in ACx550)
16.04 FAULT RESET SEL	COMM.CW	(COMM in ACx550)
98.02 COMM. MODULE LINK	FIELD BUS	(COMM PROT SEL and EXT FBA in ACS550)
98.07 COMM PROFILE	GENERIC	(ACS800 only)
51.01 MODULE TYPE	LONWORKS	(Read Only)

Open the browser of the commissioned device:

Subsystem	Device	Functional Block	Network Variable	Config Prop	Mon	Value
Subsystem 1	Device 1	VSD		SCPTrampUpTm	N	5.0
Subsystem 1	Device 1	VSD		UCPTparRead	N	0
Subsystem 1	Device 1	VSD		UCPTparValue	N	0
Subsystem 1	Device 1	VSD		UCPTparWrite	N	0
Subsystem 1	Device 1	VSD		UCPTpidDerTime	N	0
Subsystem 1	Device 1	VSD		UCPTpidGain	N	1
Subsystem 1	Device 1	VSD		UCPTpidIntTime	N	60
Subsystem 1	Device 1	VSD		UCPTstopLevel	N	5
Subsystem 1	Device 1	VSD		UCPTstopMode	N	0 0
Subsystem 1	Device 1	VSD	nviDigOutput1		Y	0.0 0
Subsystem 1	Device 1	VSD	nviDigOutput2		Y	0.0 0
Subsystem 1	Device 1	VSD	nviDrvSpdScl		Y	100.000
Subsystem 1	Device 1	VSD	nviDrvSpdScl	SCPTdefScale	N	0.000
Subsystem 1	Device 1	VSD	nviDrvSpdScl	SCPTmaxRcvTime	N	0.0
Subsystem 1	Device 1	VSD	nviDrvSpeedStpt		Y	100.0 1
Subsystem 1	Device 1	VSD	nviDrvSpeedStpt	SCPTmaxRcvTime	N	0.0
Subsystem 1	Device 1	VSD	nviEmrgOvrd		Y	EMERG_NORMAL
Subsystem 1	Device 1	VSD	nviResetFault		Y	0.0 0
Subsystem 1	Device 1	VSD	nvoAnlgInput		Y	7.200
Subsystem 1	Device 1	VSD	nvoAnlgInput	SCPTminSendTime	N	0.0
Subsystem 1	Device 1	VSD	nvoDigInput1		Y	0.0 0
Subsystem 1	Device 1	VSD	nvoDigInput2		Y	0.0 0
Subsystem 1	Device 1	VSD	nvoDrvCurnt		Y	0.6
Subsystem 1	Device 1	VSD	nvoDrvCurnt	SCPTminSendTime	N	0.0

The nviDrvSpdScl requires a speed scaling value e.g. 100 = 100%.
 The nviDrvSpeedStpt needs to be given a reference scaling value e.g 100.0 and the start command (100.0 1).

A fault reset can be given with nviResetFault which is executed on a rising edge (0.0 0 → 100.0 1).