# **Commissioning Overview** Use with Viessmann Vitotronic NR2 controls with Tridium® based BMS

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#### **IMPORTANT**

Read and save these instructions for future reference

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# **Commissioning Information**

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By default Viessmann Vitotronic controls work in self-binding mode in domain 0x07. Subnet number is 01 and with the following node numbers:

• Node numbers 1 to 4 are reserved for the boiler controls (Vitotronic 100, 200,300)

• Node number 5 is assigned to the Vitotronic 333 (Vitocontrol-S/C) cascade control.

• Nodes number 10 and up are reserved for Vitotronic 050 control line.

Vitotronic controls generally have two LON communication cards, one is a generic boiler/zone control card and the second one is for a master cascade controller:

- Boiler/Zone controllers are Vitotronic 100,200,300,050
- Master control is Vitotronic 333 or 300-K

Tridium may recognize the Vitotronic 100 as a Vitotronic 200, which is fine due to the fact they use the same communication card.

If you are already using assigned node ID numbers in your network or your subnet number is different, you will have to assign new numbers to the Vitotronic controls. You can change that in coding 2 on the respective controls. Subsequently, the following addresses need to be changed:

- Coding 0x77 determines Node ID for each control.
- Coding 0x98 is the Subnet ID number.

In our test we changed Node IDs to 3 and 4 for boiler controls Vitotronic 100, GC1 and on the Cascade Vitotronic 333 we setup Node ID as 10.

Tridium does not appear to strictly follow necessary steps to change the device from selfbinding to tool-binding, so the following commissioning steps was generated.

The first hurdle is if you try to change Node IDs and Subnet IDs to ones not configured in controls, Tridium will not be able to address Vitotronic controls properly to change the "nciNetConfig" variable. The "nciNetConfig" variable has to be changed to "external" value from "local" value, if this variable has "local" value Vitotronic control will initiate self-binding procedure on power up.

If you are using LNS (LONworks Networks Services) based tools such as "LonMaker" to configure and bind the network the following is done by the LonMaker tool.

#### LON Coding for Vitotronic 100 GC1 Controls

CA	Description: Function	Value	Adjustment necessary?
(hex)			
01	Single/ Multiple boiler system: determines whether it is dealing	1	Only for a multiple boiler system: Single boiler system
	with a single or multiple boiler system	2	Multiple boiler system with Vitotronic 333 MW1
07	Boiler number: determines the		Only for a multiple boiler system
	boiler number of a boiler in a multiple boiler system	1 4	Boiler number 1 4
77	Participant number: determines		Only if participant number "1" is already taken by
	node address via selfbinding		an other participant:
		1	Participant number 1 99
		99	
98	System number: determines		Only if several independent heating systems are
	subnet number via selfbinding		In one network:
		15	System number 1 5
79	System fault manager: deter-		Only if device is to check other devices for fault/
	mines whether device is to record		failure (please note: only one control unit per
	all fault messages of the heating		heating system must be fault manager):
	system, checks participants for	0	Device is not fault manager
	failure and generate a compiled	1	Device is the fault manager
	fault message		
CA = C	Coding Address		

**NOTE:** This commissioning procedure should be used only with systems that have only Viessmann controls on the LON bus, for mixed systems try to use procedure "B".

- 1. Change Node ID numbers if necessary and make sure that the Vitotronic controls communicate in self-binding mode.
- 2. Temporarily change the system domain ID to 0x07 to match default domain.

File Edit Search View Properties Commands Go Help	
	$\underline{n}$
Locator: http://localhost/db/viesmann/services/LonWorksService\$Properties	-
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3. Learn devices from network.



4. Upload binding information and configuration data.

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🔶 🐷 Grand_River							
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or-as Lions	status	deviceName	subnet	lonNode	manufacturer	programId	neuronid
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In the second secon	config_online	Vitotronic200_1	1	4	Viessmann Werke	90:0:80:53:0:3:4:2	00:12:21:4
🗣 🐻 Queensmount	config_online	Vitotronic333MVV1S02	1	10	Viessmann_Werke	90:0:80:52:0:3:4:2	00:12:26:2
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## Procedure A Continued: Niagara Framework® R2



5. Change nciNetConfig on all controls from local to external.

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ator: http://localhost/db/viesmann/lonTrunk/LonT	emp/Vitotronic333MWI S02\$Properties	
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## Procedure A Continued: Niagara Framework® R2

6. Cycle power to all Vitotronic controls to make sure the controls go out of self-binding mode. This can be checked on the control diagnosis screens. Read the appropriate control manual on how to enter the diagnosis screen. Controls should be in Tool mode and Node IDs and Subnet IDs according your setup. Scan information screens:

Vitotronic 100 – Scan 0 and Scan 1 Vitotronic 333 – Scan 5 and Scan 6

- Change back system domain ID from 0x07 to your chosen domain ID.
- 8. Commission all devices.



9. Cycle control power off and back on.

10. Bind all links

& WEB Pro - http://localh	nost/db/viesma	nn/services/Lor	WorksService\$L	onLinkManager		
File Edit Search View LonLinkManager	Commands Go Help					
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Locator: http://localhost/db/viesmann/services/Lon/	/VorksService\$LonLinkManag	er				-
Grand River						
o	Network Variable links	Message Tag links				
o Elions	sel status	hubNode	hubNv	targetNode	targetNv	service
💁 🐷 LyleHallman	1 bound	Vitotronic333MVV1S02	nvoNodeTimeSet (6)	Vitotronic200_1	nviNodeTimeSet (1)	standard
or-æ Mono	1 bound	Vitotronic333MVV1S02	nvoNodeTimeSet (6)	Vitotronic200	nviNodeTimeSet (1)	standard
o	2 bound	Vitotronic200_1	nvoNodeAlarm (5)	Vitotronic333MW1S02	nviNodeAlarm (2)	standard
🌳 🛲 Queensmount	2 bound	Vitotronic200	nvoNodeAlarm (5)	Vitotronic333MW1S02	nviNodeAlarm (2)	standard
	2 bound	Vitotronic333MW1S02	nvoNodeAlarm (5)	Vitotronic333MW1802	nviNodeAlarm (2)	standard
🌳 🛲 viesmann	3 bound	Vitotronic200_1	nvoBoCBIrState (41)	Vitotronic333MW1802	nviPM1BIrState (38)	standard
🌳 🛅 services	4 bound	Vitotronic200_1	nvoBoCSupplyT (43)	Vitotronic333MVV1802	nviPM1SupplyT (39)	standard
AuditLogService	5 bound	Vitotronic200_1	nvoBoCBoCState (44)	Vitotronic333MW1802	nviPM1BoCState (40)	standard
ControlEngineService	6 bound	Vitotronic333MW1S02	nvoPM1BoilerCmd (41)	Vitotronic200_1	nviBoCBoilerCmd (38)	standard
🚽 🖗 ErrorLogService	7 bound	Vitotronic333MW1S02	nvoPM1ApplicMd (42)	Vitotronic200_1	nviBoCApplicMd (39)	standard
LogService	8 bound	Vitotronic333MVV1S02	nvoPM1Setpoint (43)	Vitotronic200_1	nviBoCSetpoint (40)	standard
🗢 🖑 NotificationService 🚺 🚺	9 bound	Vitotronic200	nvoBoCBIrState (41)	Vitotronic333MVV1802	nviPM2BIrState (44)	standard
- 🖗 UiEngineService	10 bound	Vitotronic200	nvoBoCSupplyT (43)	Vitotronic333MVV1802	nviPM2SupplyT (45)	standard
- # WebUiService	11 bound	Vitotronic200	nvoBoCBoCState (44)	Vitotronic333MVV1802	nviPM2BoCState (46)	standard
- DonWorksService	12 bound	Vitotronic333MW1S02	nvoPM2BoilerCmd (47)	Vitotronic200	nviBoCBoilerCmd (38)	standard
🌳 🛅 IonTrunk	13 bound	Vitotronic333MW1S02	nvoPM2ApplicMd (48)	Vitotronic200	nviBoCApplicMd (39)	standard
- S localLonDevice	14 bound	Vitotronic333MW/1802	nvoPM2Setpoint (49)	Vitotronic200	nviBoCSetpoint (40)	standard
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11. If the control block is shown in yellow you may "Download" configurations to controller



## Procedure B: Commissioning Procedure with Shadow Objects

- 1. Change Node ID numbers if necessary and make sure that the Vitotronic controls communicate in self-binding mode.
- Commission device using shadow objects from Tridium, use Vitotronic 200 object for Vitotronic 100/300 and Vitotronic 333 object for Vitotronic -S/C. Service pin is released by pressing "+" and "-" together.
- 3. Change nciNetConfig on all controls from local to external.
- 4. Cycle power to all Vitotronic controls to make sure the controls go out of self-binding mode. This can be checked on the control diagnosis screens. Read the appropriate control manual on how to enter the diagnosis screen. Controls should be in Tool mode and Node IDs and Subnet IDs according to your setup.

Scan information screens: Vitotronic 100 – Scan 0 and Scan 1 Vitotronic 333 – Scan 5 and Scan 6

 Bind the Boiler controls and cascade according to the information found in the Viessmann NR2 LON Handbook on pages 58 to 64.

- 1. Change the Node ID numbers of all controls, if necessary, and make sure that the Vitotronic controls communicate in self-binding mode.
- Temporarily change the system domain ID to 0x07 to match the Vitotronic's default domain.

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🖃 🚔 Lon Netmgmt	Lon Netmgmt	
💷 🔘 Domain Id		length: 1 💌 id: 07

3. Discover the devices and press the ADD button to move them to the database. Change the names of the controls to reflect Node IDs and boiler numbers (a Vitotronic100 may be recognized as a Vitotronic200 which is ok since they use the same LON card.)



### Procedure C Continued: Commissioning Niagara Framework® AX

 Highlight all controls, then commission them. NOTE: The controls are still not part of the BMS system!

#### 🔨 Commission

 Highlight all controls and click on "Quick Learn" to learn the existing links created in selfbinding mode.
 NOTE: Looking at Links Manager will show no links until "Quick Learn" process is completed.

🍓 Quik Learn



6. Check whether the connections were learned using "Lon Link Manager"

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	2 45	New Link Wtotronic33	3 nvoPM24 Vkotronic100_2	nviBoCApplic standard				
ProgramService	46	New Link Vitotronic33	3 nvoPM25 Vitotronic100_2	nviBoCSetpo standard				
S JobService	61	New Link Vitotronic100	)_rivoBoCB Vitotronic333	nviPM3BirSta standard				
TimeSyncService	62	New Link Vitotronic108	, nvoBoC5 Vitotronic333	nviPM35upphstandard				
A UserService	63	New Link. Vitotronic100	1_rivoBoCB Vitobronic333	nviPM3BoCSt standard				
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You can also check the LonNetwork Wire Sheet to see the connections

Dynamic Device	ur.		
Status	{ok}	Vitotronic200	
nviNodeAlarm	, 0, alNoCondition, prLevel0,	Dynamic Device	
nvoNodeAlarm	VI, 0, alAlmCondition, pr8,	Status	{ok}
nvoNodeTimeSet	2011 yr, 2 mo, 2 day, 21 hr,	nviNodeTimeSet 2011 yr	r, 2 mo, 2 day, 21 hr, 🐂
nviPM1BlrState	100.0 %, stateOn	nvoNodeAlarm , 0, alNo	Condition, prLevel0,
nviPM1SupplyT	26,500 °⊂	nviBoCBoilerCmd	0.0 %, stateNul
nviPM1BoCState	0, 0, 68, 700,	nviBoCApplicMd	hvacHeat
nvoPM1BoilerCmd	0.0 %, stateNul	nviBoCSetpoint	49,800 °⊂
nvoPM1ApplicMd	hvacHeat	nvoBoCBlrState	100.0 %, stateOn
nvoPM1Setpoint	49.800 °⊂	nvoBoCSupplyT	26.500 °⊂ 🗢
		nvoBoCBoCState	0, 0, 68, 700,

7. Under the "Property Sheet" of each control; change nciNetConfig from local to external.

Important Note: Even if nciNetConfig is already showing "Cfg External" re-select "Cfg External" and hit save. (Right click -> Force read to verify).

🖃 🀬 nciNetConfig	Cfg External
🖭 🔘 Nc Props	nv:9,snvt:69,cfgNdx:25,mod:readWrite,scope:Ol
🖭 🔘 Ny Config Data	sel:0x3ff6,Acked,adr:-1,in
💷 🔘 configSrc	Cfg External 💌

#### **Final Steps**

Cycle power to all the Vitotronic controls to make sure the controls go out of self-binding mode. This can be verified by looking at the scan codes on the control.

Read the appropriate control manual on how to enter the diagnostics screen. Controls should be in Tool mode and Node IDs and Subnet IDs should be set according to your setup. Scan information screens:

Vitotronic 100 – Scan 0 and Scan 1 Vitotronic 333 – Scan 5 and Scan 6

After communication is successfully established and verified, you can change the control domain ID to the intended system Domain ID (Step 2.). **NOTE:** As soon as the control Domain ID is changed, communication will be interrupted until re-commissioning is completed.

If a change of Domain ID is made, you will need to re-commission all Vitotronic controls (Step 4).

After re-commissioning, cycle the power on each control in order to re-establish communications.

The complete integration of the controls should finish off with clicking on the Bind button for all of the Viessmann controls. Notes

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