Het koppelen van de Cube20s aan de S7-1200 plc.

A quick start guide

Jaap Ruiten





Het koppelen van de Cube20s RIO aan een S7-1200 PLC in schematische weergave.







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Het installeren van het GSDXML bestand binnen de TIA-portal.

Selecteer in het menu de optie "Install general description file".

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Selecteer via de "Browse" knop de map waarin het GSDXML bestand is opgeslagen.

Install general station description file			×
Source path: D:\Fieldbus files\Murrelektronik\Profine	t\Cube20s_BN	I_PNIO	
Content of imported path			
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Selecteer het bestand door het vinkje voor het bestand te plaatsen en klik vervolgens op de "Install" knop.





Indien u versie 11 van de TIA-portal heeft, dan verschijnt het volgende bericht. Bij versie 12 ziet u deze boodschap niet.



Klik met de muis op de OK knop.

De GSDXML data wordt geïnstalleerd.

Installati	on		
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			Cancel







Het toevoegen van de Cube20s aan het project.

Selecteer de "Devices & networks" en open vervolgens in de "Catalog" de volgende mappen

- Other field devices
- Profinet IO
- I/O
- Murrelektronik
- Cube20s

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Klik op de "Cube20s BN-PNIO" in de catalogus en sleep deze naar het "Network view" scherm.

De Cube20s is nu aan het project toegevoegd.

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	CPU 1212C	Cube20S BN-PNIO
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De profinet verbinding tot stand brengen tussen de Cube20s en de PLC.

Klik op de link "Not assigned" in het scherm zoals hierboven is afgebeeld.

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Selecteer de gewenste PLC om de verbinding mee te maken.

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De koppeling tussen PLC en de Cube20s is nu tot stand gebracht.





Het instellen van IP-adres en device name in het project.

Dubbel klik op het plaatje van de Cube20s in het "Devices & Network" scherm, het programma schakelt nu om naar de device view van de Cube20s.

Ga naar het tabblad Properties en selecteer de optie ethernet addresses

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Geef het IP-adres op en corrigeer indien u een dipswitch op het kopstation actief heeft staan de device name.

Standaard wordt het kopstation uitgeleverd met dipswitch 1 actief. Hiermee wordt een volgnummer aan de device name toegekend. Als u alle dipswitches uit zet dan kunt u zelf een device name toekennen. Wij corrigeren in dit geval de TIA-portal.

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Haal het vinkje weg en corrigeer het volgnummer!





Het toevoegen van I/O modules aan het kopstation (busnode).

Selecteer in de Catalog de gewenste module en dubbel klik daar op, de module wordt in de configuratie toegevoegd.

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Herhaal dit totdat alle modules zijn toegevoegd!

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Device overview Module • Murrelektronik57106-000	III Rack O	Slot	I address	Q addr	Type Cube205 BN-PNIO	Order no. 57106	Firmware V01.00.00	Comment	>	\$7225 D12xbC24V ETS(20) \$7224 D14xbC24V \$7244 D14xbC24V \$7244 D14xbC24V SWire \$7242 D14xbC24V SWire \$7242 D14xbC24V ETS \$7243 D14xbC24V ETS \$7245 D14xbC24V SWire \$7280 D16xbC24V VETS(20) \$7280 D16xbC24V VETS(20) \$7280 D16xbC24V VETS(20) \$7281 D14xbC24V VETS(20) \$7282 D16xbC24V VETS(20) \$7282 D16xbC24V VETS(20) \$7282 D12xbC24V 24x_4ms \$7221 D12xbC24V 24x_4ms	E
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De configuratie is nu compleet.





Sla het project op!



Compileer het project.







Het instellen van IP-adres in de Cube20s.

Ga via online access naar de Cube20s en geef het IP-adres op. Klik vervolgens op "Assign IP address"



Hier kunt u ook de device name controleren, dan hoeft u niet te rekenen met de dipswitches.

* 隆 🗖 Save project 🗏 🖌 🗐 🖕 🏷 👘	al + 172						
Project tree		Online access → Intel(R) Centrino(R) Advanced-N 6200 AGN → murrelektronik57106-001 [192.168.0.2]					
Devices							
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