



SST DeviceNet[®] platform



Explanation of symbols:



Read declaration carefully before you start any other action!



Attention!



Product is in conformity with EC guidelines!



Disconnect electrical power and compressed air lines. Do not touch parts under voltage!



Keep body parts and objects away from the valve opening!



Hot surfaces; do not touch!



Loaded springs and/or air cushions are potential hazards!



Wear gloves!

STOP

Read these «**Installation, Operating & Maintenance Instructions**» and the enclosed «**General Safety Instructions**» carefully before you start any other action!



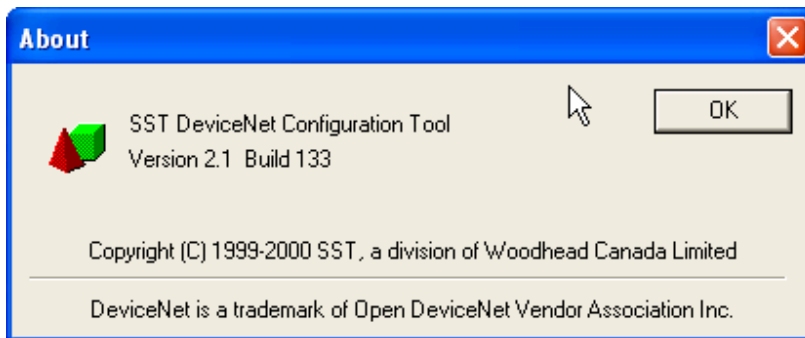
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1 Example conditions (SST software version)

1.1 Platform:

- SST DeviceNet[®] Configuration Tool Ver 2.1 (Installed on your PC)
- SST OPC Server
- SST OPC GUI Client



NOTE: This example shows the procedure for «DeviceNet[®]» setup with SST software

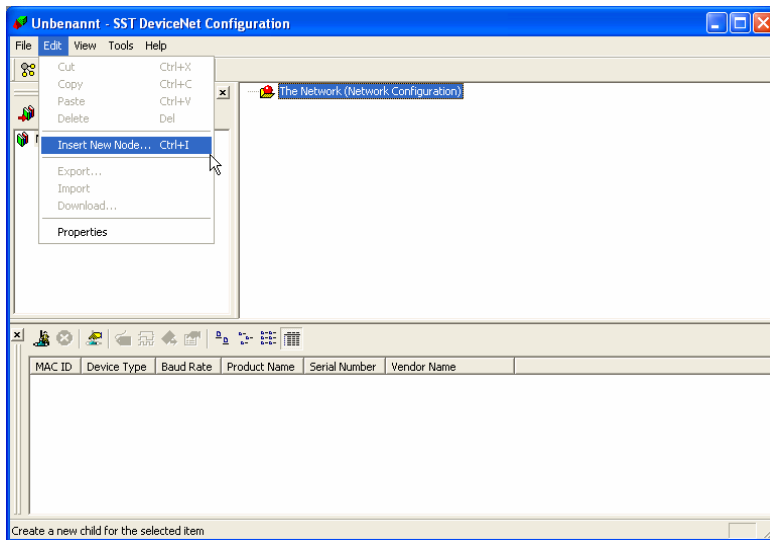
2 Setup instructions for POLL I/O with SST

2.1 Insert «DeviceNet® master card» in «SST DeviceNet® Configuration Tool»

1. Start the «SST DeviceNet® Configuration Tool»

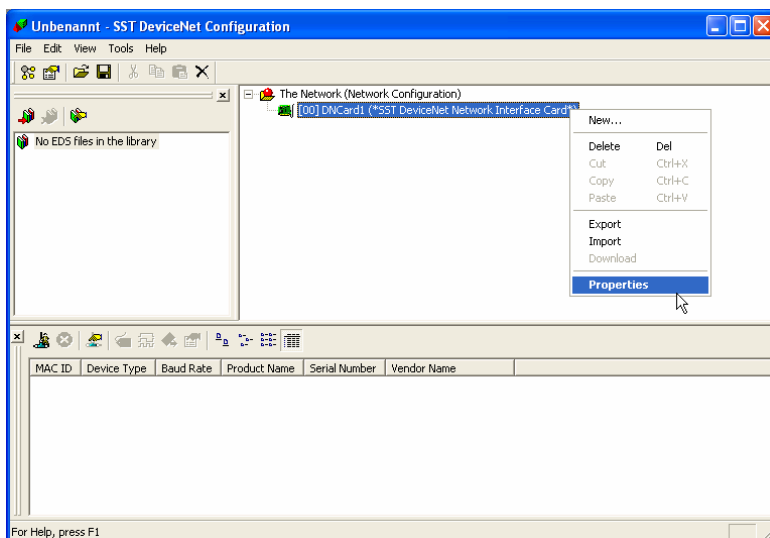
The window «Unbenannt - SST DeviceNet® Configuration» opens

2. Click the pull-down menu «Edit» > «Insert New Node»



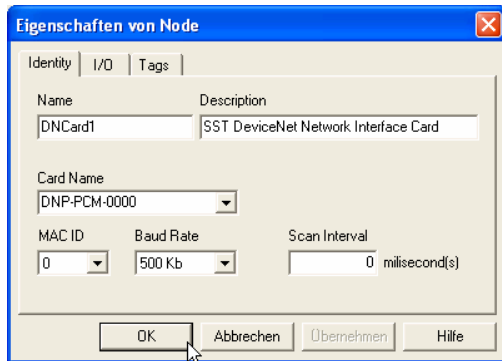
The «SST DeviceNet® Network Interface Card» is integrated

3. Click right mouse button on [VAT Adaptive Pressur] [SST DeviceNet® Network Interface Card] and choose «Properties»



The window «Eigenschaften von Node» opens

4. Set your «Mac ID», «Baud Rate» and the «Scan Interval» 0ms or higher
5. Click command button [OK]



2.2 Insert «VAT Adaptive Pressurw... master» in «SST DeviceNet[®] Configuration Tool»

1. Check and/or set the «Baud Rate» and «Node Address» on your valve controller

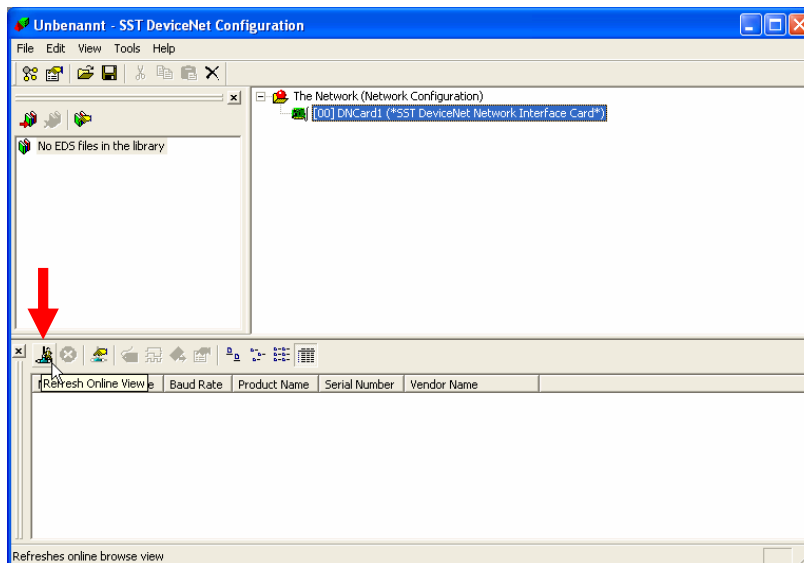


- Baud Rate



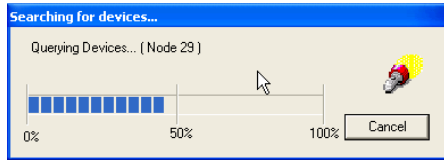
- Node Address

2. Click [Refresh Online View] for import «VAT Adaptive Pressurw...master» to «SST DeviceNet[®] Configuration Tool»

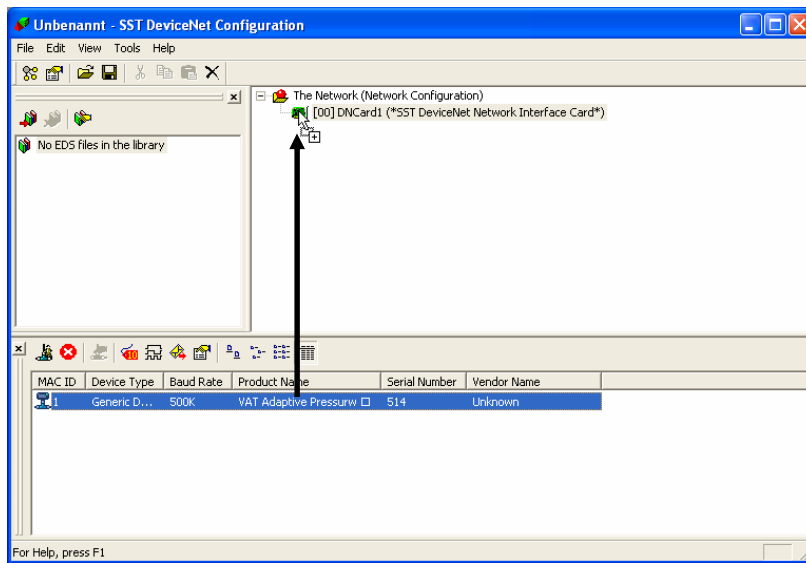




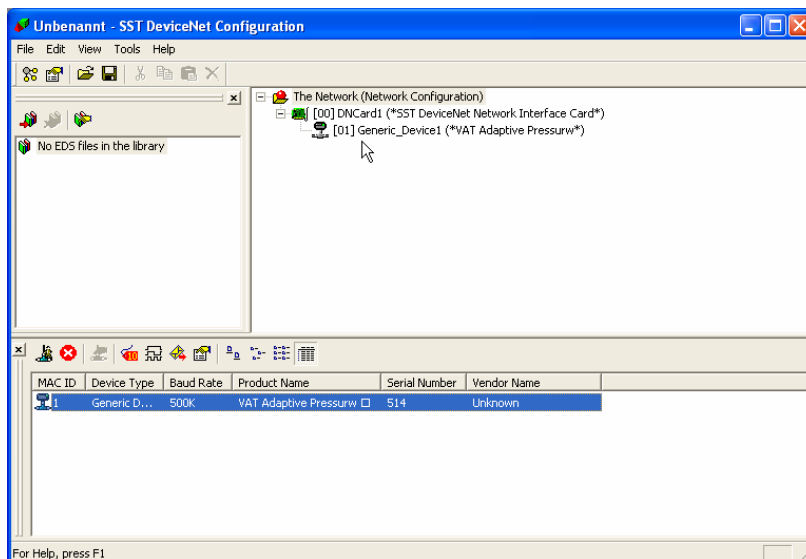
The window «Searching for devices...(Node...)» opens...and close if the import is 100% reached



3. Click [VAT Adaptive Pressurw] and [drag & drop] it up to «SST DeviceNet® Network Interface Card»

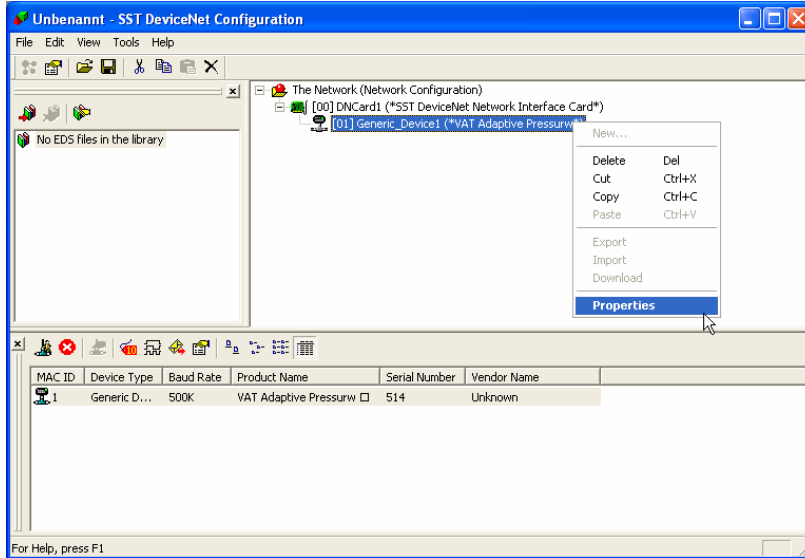


The «VAT Adaptive Pressurw...master» is now integrated





4. Click right mouse button on [VAT Adaptive Pressurw] and choose «Properties»

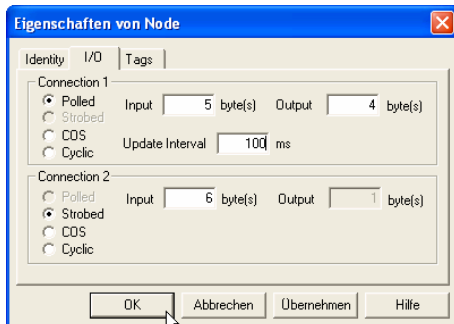


The window «Eigenschaften von Node» opens

5. Click [I/O]



6. Set your recommended Data and «Update Interval» to 100 ms



7. Click command button [OK]

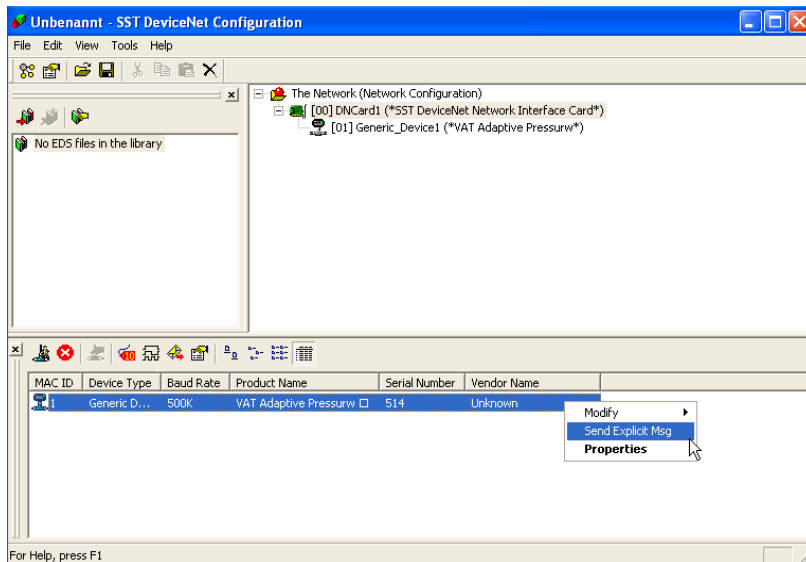
3 Device Configuration (Customised settings)

3.1 Send data in «executing state»

Note:

- Proceed with your IOMI control valve manual at chapter «Explicit messaging control commands»
- EXECUTING must be selected to enable for all executing commands such as control mode, close valve and open valve.

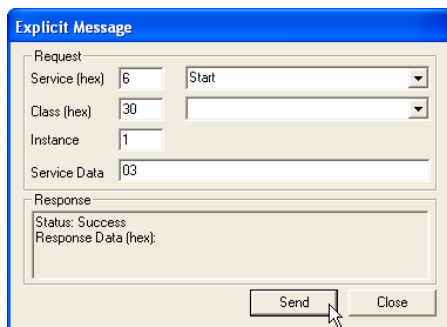
1. Click right mouse button on [VAT Adaptive Pressurw] and choose «Send Explicit Msg»



The window «Explicit Message» opens

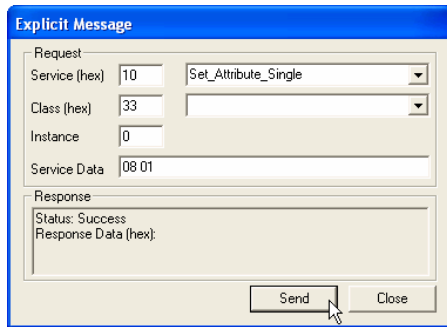
2. Set the valve to «executing state» with this commands and click command button [Send]

- Service (hex) **[6], [Start]**
- Class (hex) **[30]**
- Instance **[1]**
- Service Data **[03]**



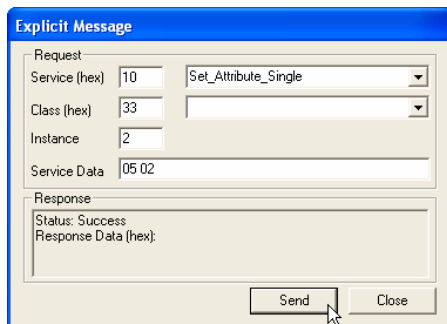
3. Choose the «setpoint type» with this commands and click command button [Send]

- Service (hex) **[10], [Set_Attribute_Single]**
- Class (hex) **[33]**
- Instance **[0]**
- Service Data **[08 01]**



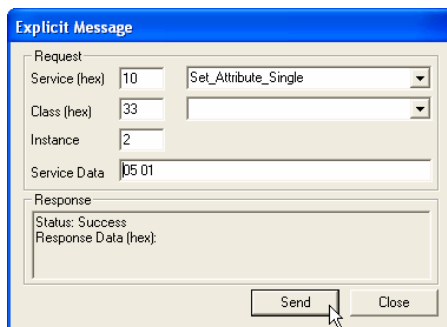
4. Choose the «control mode» for open valve with this commands and click command button [Send]

- Service (hex) **[10], [Set_Attribute_Single]**
- Class (hex) **[33]**
- Instance **[2]**
- Service Data **[05 02]**



5. Choose the «control mode» for close valve with this commands and click command button [Send]

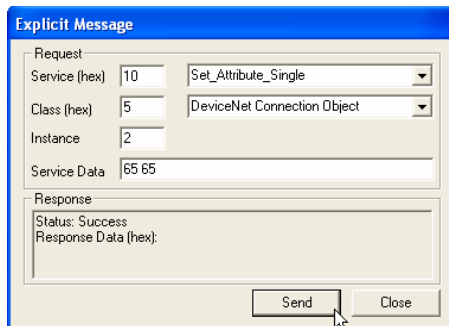
- Service (hex) **[10], [Set_Attribute_Single]**
- Class (hex) **[33]**
- Instance **[2]**
- Service Data **[05 01]**



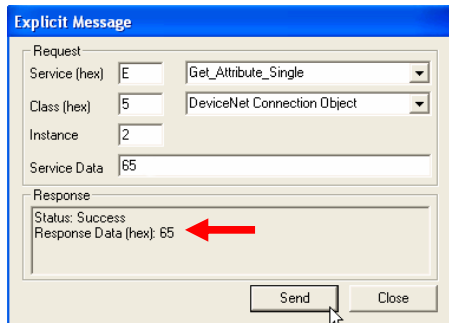
3.2 Send «Explicit Message»

Note: Example with assemblies «Input 101» and «Output 102» plus «data type real 202»

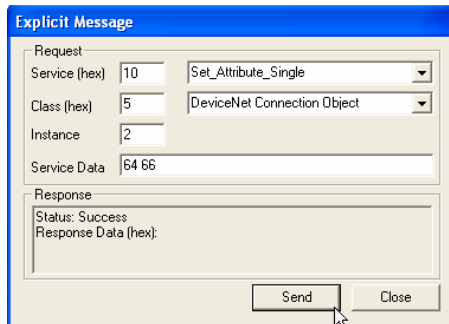
1. Choose the Input assembly in Hex. Data (Input assembly, dec. 101 = hex. 65) and click command button [Send]
 - Service (hex) **[10], [Set_Attribute_Single]**
 - Class (hex) **[5], [DeviceNet Connection Object]**
 - Instance **[2]**
 - Service Data **[65 65]**



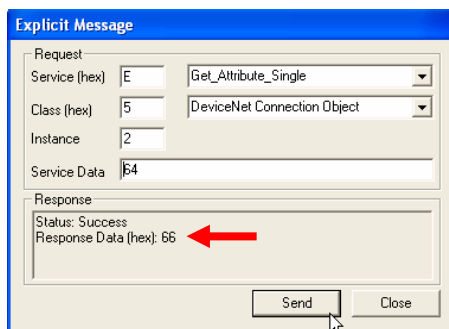
2. Check the Input assembly with:
 - Service (hex) **[E], [Get_Attribute_Single]**and Click command button [Send]



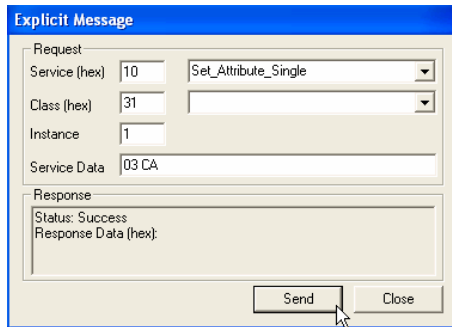
3. Choose the Output assembly in Hex. Data (Output assembly, dec. 102 = hex. 66) and click command button [Send]
- Service (hex) **[10]**, **[Set_Attribute_Single]**
 - Class (hex) **[5]**, **[DeviceNet Connection Object]**
 - Instance **[2]**
 - Service Data **[64 66]**



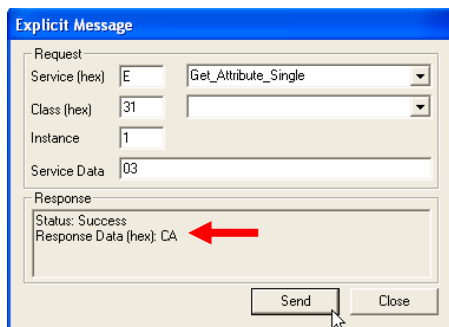
4. Check the Output assembly with:
- Service (hex) **[E]**, **[Get_Attribute_Single]**
- and Click command button [Send]



- Choose the real data in Hex. Data (data type real, dec. 202 = hex. CA)
 - Service (hex) **[10], [Set_Attribute_Single]**
 - Class (hex) **[31], [DeviceNet Connection Object]**
 - Instance **[1]**
 - Service Data **[03 CA]**



- Check the real data assembly with:
 - Service (hex) **[E], [Get_Attribute_Single]**and click command button [Send]



- To end the «SST» DeviceNet[®] setup instruction click command button [Close], and close the «SST DeviceNet[®] Configuration Tool».

If you need any further information, please contact one of our service centers. You can find the addresses on our website:
<http://www.vat.ch>