

**Reference Guide**

D301508X412

April 2012

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# **OpenEnterprise NW3000 Poll List Builder Reference Guide (V2.83)**

Remote Automation Solutions

Website: [www.EmersonProcess.com/Remote](http://www.EmersonProcess.com/Remote)



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## 1 NW3000 Poll List Builder

The Poll List Builder is a utility that is used for building data collection templates for Bristol devices. A template is a list of signals, that will be periodically collected for each device. The frequency of the collection is controlled by the template's associated schedule.

The Poll List Builder runs in two different ways:

- Monitor mode - Poll List Builder detects ACCOL MSD load version changes and automatically rebuilds the templates.
- Manually - User requests to build templates.

**Note:** Poll List Builder can run either interactively by using the Poll List Builder dialog box, or in background or batch mode by using Command Line Switches.

### 1.1 Command Line

The Poll List Builder can be activated from the command line using special switches that control its behaviour. The command line options are as follows:-

#### TPB <switches>

Where <switches> is one of the following:

##### 1.1.1.1 -m

Enter Monitor Mode. This is the default when the program is started as an invisible window.

##### 1.1.1.2 -a

Build Templates for all devices.

##### 1.1.1.3 -i <rtu....>

Build Templates for the specified device(s).

##### 1.1.1.4 -s<dataservice>

Service to connect to (defaults to rtrdb1).

**Note:** TPB will exit when it has finished building templates when invoked with the following switches:

##### 1.1.1.5 -a

##### 1.1.1.6 -i <rtu,....>

### 1.2 Command Line Worked Examples

#### 1.2.1.1 Example 1:

TPB -i RTU1 RTU2

TPB will build templates for devices RTU1 and RTU2 and will then exit.

1.2.1.2 Example 2:

TPB -m -a

TPB will enter monitor mode and it will build templates for all the devices in the system. Since monitor mode has been specified, TPB will not exit.

1.2.1.3 Example 3:

TPB -i RTU1 -m

TPB will build templates for device RTU1, and then enter monitor mode. Since monitor mode has been specified, TPB will not exit.

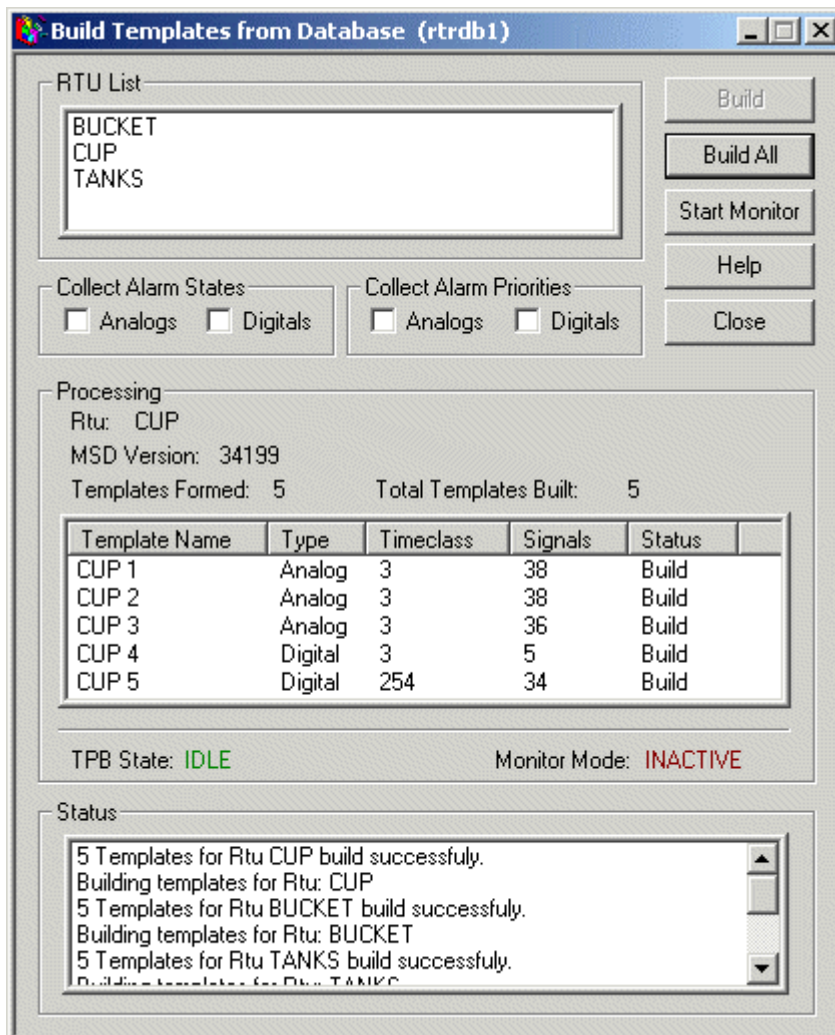
1.2.1.4 Example 4:

TPB -sRTRDB1 -m

TPB will connect to service RTRDB1, it will enter monitor mode and will not exit.

1.3 Build Templates Dialog

The NW3000 Poll List Builder dialog allows the user to manually build templates for all devices or a selected device. The dialog provides status information on the template build.



**1.3.1 Build All Button**

Selecting the Build All button will build templates for all devices.

**1.3.2 Build Button**

Selecting the Build button will build templates for the devices currently selected within the device list defined within the OpenBSI network definition file.

**1.3.3 Start Monitor Button**

Places the Poll List Builder into monitor mode. When in monitor mode, templates will be automatically rebuilt following a load version change.

**1.3.4 Help Button**

Selection of this button opens this context sensitive help file.

**1.3.5 Close Button**

Stops the Poll List Builder, and shuts down the template building process.

**1.3.6 Collecting Signal Alarm Data**

OpenEnterprise can be configured to collect signal alarm data from Bristol RTUs. Signal alarm data may be classified into two types:-

**1.3.6.1.1 Alarm state data**

The following table lists the database signal attributes that will be updated with alarm state data collected from an RTU. A description is provided, mapping the values collected from the RTU with those which will be written to the database.

Database Attribute	Description
Cleared (InAlarm)	Set to TRUE when the signal is currently out of alarm, FALSE when in-alarm. InAlarm will be set to the inverse value of Cleared.
Acknowledged	Set to TRUE when the signal is acknowledged, FALSE when the signal is unacknowledged.
AlarmType	The current alarm type. For analog signals this will be set to 0 – Low, 1 – High, 2 – Low-Low, 3 – High-High or 8 – Normal. For digital signals this will be set to 5 – OnFalse, 6 – OnTrue, 7 – Change-of-state or 8 – Normal.

**1.3.6.1.2 Alarm priority data**

The following table lists the database signal attribute that will be updated with alarm priority data collected from an RTU. A description is provided, mapping the values collected from the RTU with those which will be written to the database.

Database Attribute	Description
AlarmPriority	The alarm priority if the signal is currently in-alarm. This will be set to 0 – Event, 1 – Operator Guide, 2 – Non-Critical or 3 – Critical.

Select any combination of the 'Analog' or 'Digitals' check boxes to enable collection of Alarm States and/or Alarm Priorities for each type of signal.

**Note:**

**It is not recommended that remote alarm collection is mixed with alarm data template collection on the same OpenEnterprise Server. Alarm data collection by template is intended for use with OpenEnterprise Servers that cannot receive remote alarm reports.**

**1.3.6.2 Enabling Collection of Signal Alarm Data**

This group of check boxes will not be visible on the Build Templates from Database dialog, and signal alarm data will not be collected by template unless polled collection of signal alarm data has been enabled. It is enabled by setting the following values in the OpenEnterprise Settings file. This is done by using the OpenEnterprise Settings Editor: -

**1.3.6.2.1 RDI3000 Task**

**Key:** OpenEnterprise\Tasks\RDI3000

**Value:** EnableQuietAlarms = 1

**1.3.6.2.2 Template Poll List Builder (TPB) Task**

**Key:** OpenEnterprise\Tasks\TPB

**Value:** EnableCollectAlmPriorities = 1

**Value:** EnableCollectAlmStates = 1

**1.3.7 Monitor Mode**

Indicates if monitor mode is active or inactive.

**1.3.8 MSD Version**

The device's load version number used to construct the template.

**1.3.9 RTU Being Built**

Name of the device for which templates are currently being built.

**1.3.10 RTU List**

List box containing the names of all the configured Bristol devices. The user can select one or more devices for which templates are to be built.

**1.3.11 Status Section**

This is a list box which contains the most recent status messages from the Template Building Process. The most recent message is at the top.

**1.3.12 Template List**

This is a report of the last template build. The report includes the name of each formed template, the template's type, the template's timeclass, the number of signals in each template, and the status of each template's build.

**1.3.13 Total Templates Built**

Total number of templates built and stored within the database.

**1.3.14 Templates Formed**

Total number of templates formed by the Template Build task.

**1.3.15 TPB State**

The current state of the Poll List Builder. Possible states are: 'Building' and 'Idle'.

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Engineered and supported by:

Remote Automation Solutions,

Blackpole Road, Worcester, WR3 8YB, UK

Registered office: Meridian East, Leicester, LE19 1UX

Registered in England and Wales, Registration No. 00671801

VAT Reg No. GB 705 353 652

**Emerson Process Management**  
**Remote Automation Solutions**  
1100 Buckingham St  
Watertown, CT 06795  
T 1 (860) 945 2200  
F 1 (860) 945 2278  
[www.EmersonProcess.com/Remote](http://www.EmersonProcess.com/Remote)  
[binfo@EmersonProcess.com](mailto:binfo@EmersonProcess.com)

**Emerson Process Management**  
**Remote Automation Solutions**  
Blackpole Road  
Worcester, WR3 8YB  
T 44 (0) 1905 856848  
F 44 (0) 1905 856930  
[www.EmersonProcess.com/Remote](http://www.EmersonProcess.com/Remote)  
[oedsupport@EmersonProcess.com](mailto:oedsupport@EmersonProcess.com)

