ALARM & EVENTS PRINTING LOGGER CONFIGURATION – STEPS

(DCS- ABB 800 XA)

Sr. No.	Version History	Created/Modified Date	Prepared By	Approved By	Remarks
1	V0.1	14-May-2018	Rajnikant K.	Ms. Bijal Desai	Ref. https://library.e.abb.com

Creating an Alarm Logger – Alarm and Event List for Printing

To create an Alarm Logger configuration for printing you can use the delivered default aspects created for this purpose. The Alarm Logger Configuration aspects are defined in the Library Structure (the Common Alarm & Event Logger Configuration, Alarm & Event Logger Configuration).

Note- The following configurations (some of them described in System 800xA Operations, Operator Workplace Configuration, 3BSE030322*) are not available for the Alarm Logger: All settings under the Sort tab and settings for showing row headers, showing column headers, viewable messages under the Columns tab.*

Printer Hardware Considerations

It is important to use a printer that has good support for reporting its status to the operating system. The Alarm Logger is highly dependant on the reported status to work as intended.

When using a line printer, the recommendation is to connect the printer to a parallel or USB port. If the printer is connected to the serial port the Alarm Logger will not detect when the printer is powered off.

Configurations

Basically, there are three types of configurations for the Alarm Logger service:

- Single

- Fail-over redundancy

- Parallel redundancy.

In a single configuration only one printer is connected. If a failure is detected for the printer, alarms or events will be buffered in the Alarm Logger Service. Once the printer is working again, the buffered alarms or events will be printed. A description of how to use the default Alarm Logger Configuration in the Library Structure and the default Logger aspect in the Service Structure is found in Setting up an Alarm Printer with the Delivered Default Aspects on page 134.

In a fail-over redundant configuration more than one printer is connected, but only one printer is active and printing. When a failure is detected for the active printer the other printer will start printing. Fail-over redundancy is achieved by creating several service providers in the same service group.If you want to have alarm printers with fail-over redundancy, see How to Create Fail-Over Redundancy for Alarm Printers on page 137.

In a parallel redundant configuration more than one printer will be active printing the same alarms or events. Parallel redundancy is achieved by creating separate service groups for each printer. How to do this is described in How to Create Parallel Redundancy for the Alarm Printers. on page 138.

## Setting up an Alarm Printer with the Delivered Default Aspects

Here we will setup a printer to function as an alarm printer with help of the delivered default aspects. The alarms might be lost if the printer is not working. Follow the steps below:

1. Install the printer as a local printer in the Windows platform in your System node. See How to set up a Network Printer on page 139.

2. Expand the Alarm Logger Service in the Service Structure.

3. Select Basic, Service Group and open the Service Group Definition aspect and its configuration view, refer to Figure 62.

4. Select the **Special Configuration** tab and then **Common Alarm & Event Logger Configuration** from the drop-down menu.
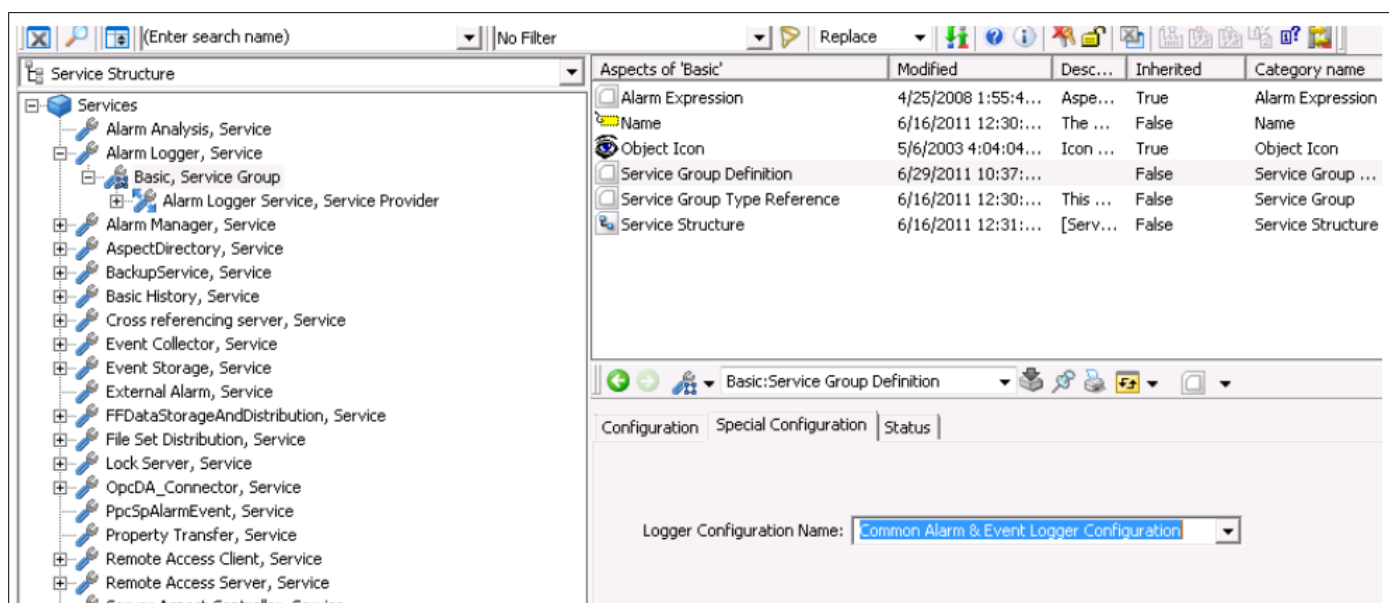
Figure 62. Service Group Definition Aspect - Special Configuration Tab

5. Select the Service Provider object, see Figure 63, and open the Service Provider Definition aspect.

6. Select the **Configuration** tab and choose the node where the printer is connected in the **Node** drop-down menu. Click **Apply**.
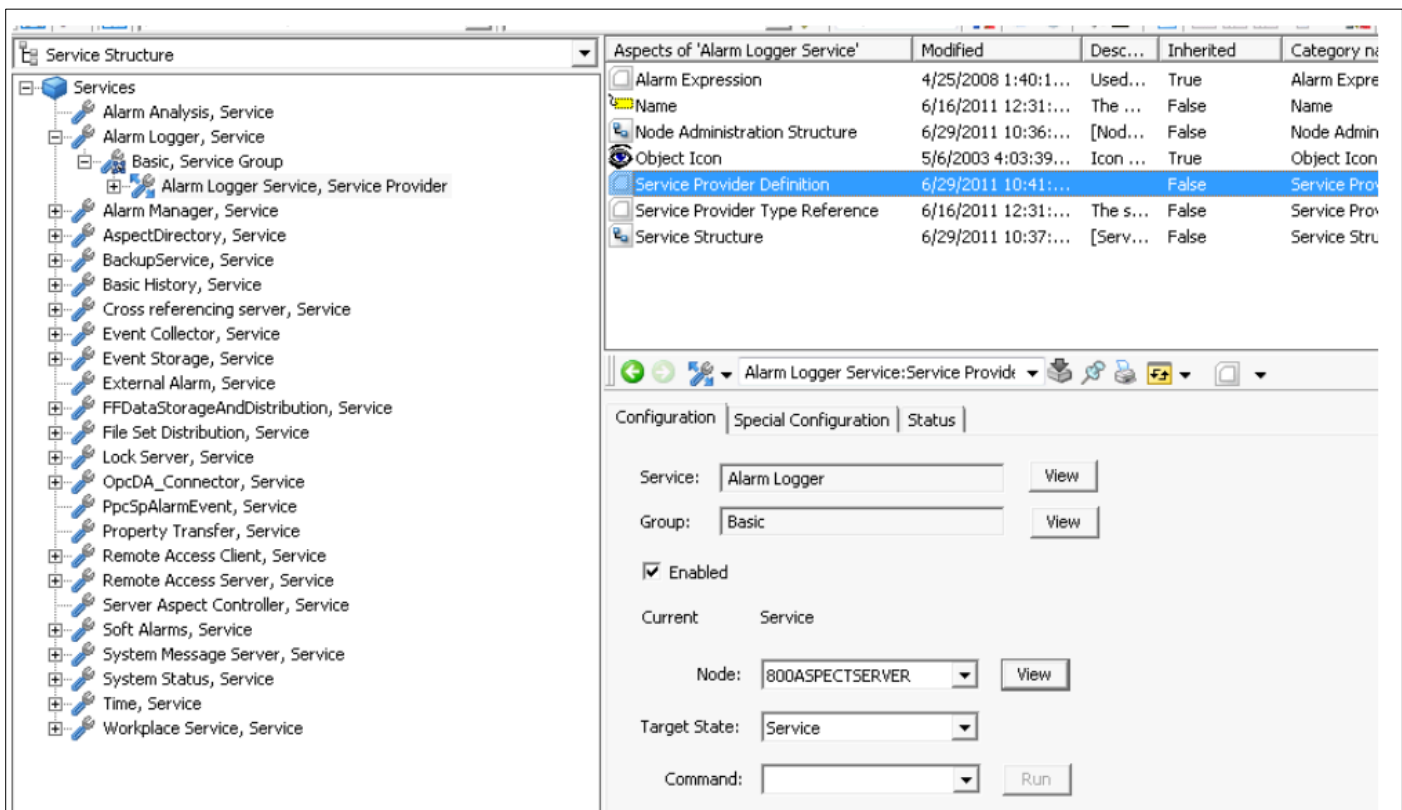
Figure 63. Service Provider Definition Aspect - Configuration Tab

Select the **Special Configuration** tab to customize the list printout. See Figure 64.

– Select printer from the **Printer name** drop-down menu.

– Select printer type from the **Printer type** drop-down menu. Depending on the type you select the other fields in the configuration view will be enabled.

– The **ProgID** field is only used together with the option Plugin printer, which is supported only for specific installations

– Select **Transparent background** if you want the list to be printed without background color.

– Select **Enable printing** for the list to be printed.

– Set the number of lines to be printed on each page in the **Max number of printed lines** field.The Alarm Logger will buffer alarms until this limit is reached and then print a page.

– Set interval for the printouts in the **Time interval between printouts** field. A page will be printed when the time interval has elapsed even if the Max number of printed lines has not been reached.

– If you want another color definition, select it from the **Override color definition** drop-down menu.

– Set values for margins in mm, in the **Margins** area.

– Click the **Preview** button if you want to see a page in the print preview area.

– The **Information** area shows detailed information about the printer, such as status and errors.
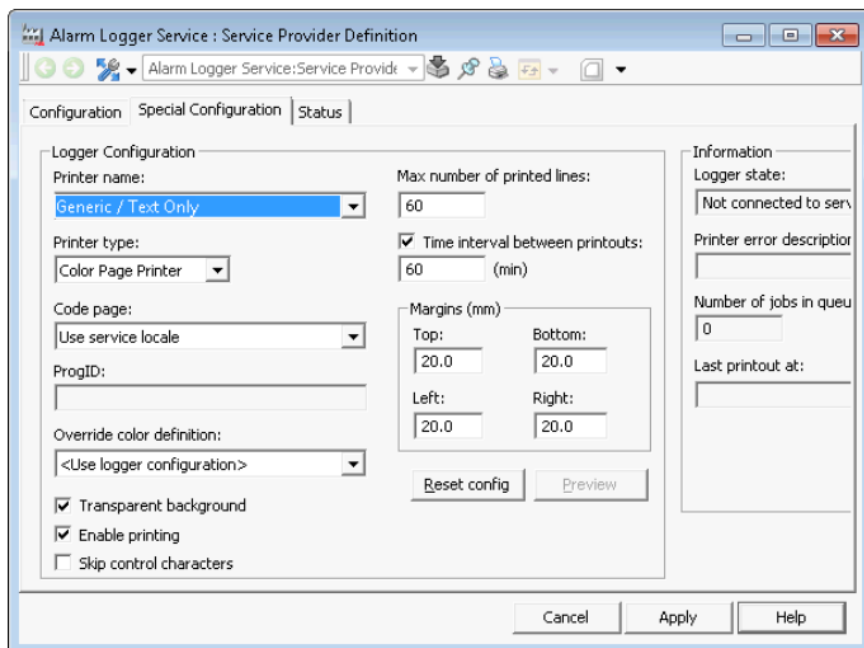
Figure 64. Service Provider Definition Aspect - Special Configuration Tab

How to set up a Network Printer

To set up a network printer over an TCP/IP port follow the steps below:

1. From the **Start** menu select: **Control Panel > Hardware and Sound > Devices and Printers > Add Printer**.

2. The Add Printer Wizard will open. Click **Next**.

3. In the next dialog select the **Local printer attached to this computer** radio button and click **Next**.

4. Select **Create a new port** and in the drop-down menu select **Standard TCP/IP Port**, click **Next**.

5. Click **Next** in the Add Standard TCP/IP Port Wizard dialog.

6. In the Add Port dialog, type a printer name or an IP address and then add a port name.

7. Finish your settings in the Additional Port Information Required dialog and click **Next**.

8. Click **Finish** to apply your settings.

END