

NTB Status Monitor (NSM)



Version 4.3.0

NSM PRODUCT OUTLINE

The Net-Top-Box Status Monitor (NSM) is a Windows application designed to monitor a collection of ONELAN Net-Top-Boxes (NTBs). Its key features include:

- ◆ Will scale to monitoring large (1000+) networks of ONELAN Net-Top-Boxes.
- ◆ Allows user defined groupings of NTBs.
- ◆ Presents the Alarm Status of individual or groups of NTBs.
- ◆ Maintains a log of NTB alarm conditions with timestamps.
- ◆ Provides an at-a-glance view of the health and status of a Channel of NTBs.
- ◆ Email alert when alarms are raised or lowered.
- ◆ Instructs NTBs to play a specified Schedule override, or the program schedule.

TECHNICAL OVERVIEW

The NSM is a Microsoft .NET™ application that will regularly report on the operational and environmental health of a large number of ONELAN NTBs. NTBs may be placed into user defined Groups. Each NTB's status is reported on a regular basis and its Alarm Status reflected upwards to its parent Group. Groups may contain other Groups and thus a large collection of NTB may be monitored through a concise graphical user interface similar to Windows Explorer™.

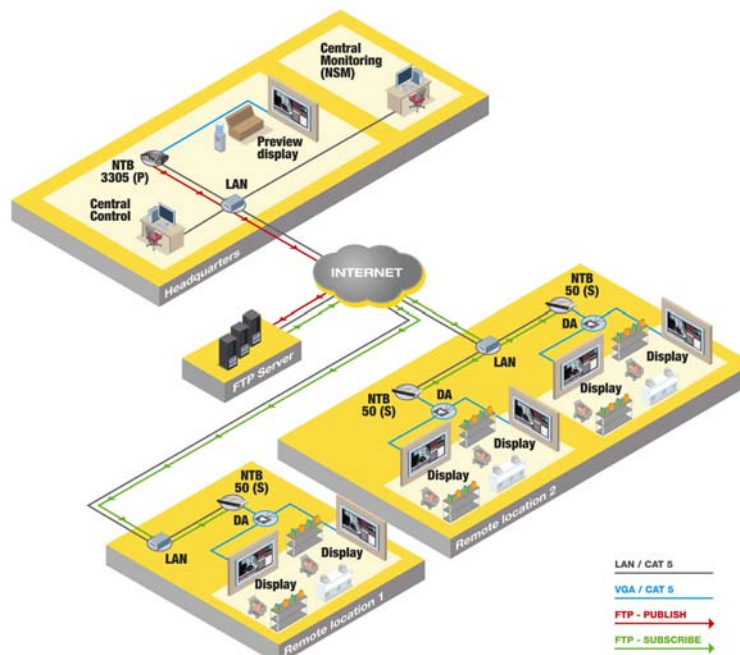
The NSM is especially useful to monitoring a Channel of NTBs since the progress of the Publish and Subscription operations of the NTB's Channel Manager facility can be easily monitored. The reported information can be customised and sorted according to user preference.

The NSM collects and displays a large range of information from each NTB. The information reported includes:

- ◆ NTB Availability
- ◆ NTB temperatures – Disk and CPU
- ◆ NTB Serial number and software version
- ◆ NTB time and date
- ◆ NTB disk free-space
- ◆ NSM Poll and NTB response times
- ◆ Channel Manager role (Publisher or Subscriber)
- ◆ Publisher and Subscriber progress

DISTRIBUTED SIGNAGE NETWORK

Large/Retail Digital Signage Network



SYSTEM COMPONENTS AND FEATURES

USER INTERFACE

| Name | Last Status | Disk ... | Software Version | Active Schedule... | NTB Uptime | Channel Name | Channel Last Pu |
|---------|------------------|----------|------------------|--------------------|------------------|--------------|-----------------|
| ntb7702 | Available | 42.0°C | V5.2.1 (7940) | TV | 21 Days 05:40:53 | NTB7702 | 2007-10-08 13:3 |
| ntb8054 | Available | 33.0°C | V5.2.2 (8197) | Program Schedule | 0 Days 00:24:00 | NTB8054 | Never Published |
| ntb6373 | Available | 39.0°C | V5.2.1 (7940) | Program Schedule | 2 Days 00:41:07 | | |
| ntb7700 | Could not res... | | | | | | |

SCALABILITY

The NSM consumes minimal host CPU resources per monitored NTB. NTBs can be grouped and group members collapsed into a single icon. Groups can contain sub-groups. Since the status of an NTB and its group reflects upwards to any parent group, a very large number of NTBs can be monitored in a concise display.

REQUIRED PLATFORM

The NSM is a Microsoft .NET application. It will run on Microsoft Windows XP. The following is the recommended minimum specification for the hardware:

- ◆ Processor – Pentium III 1 GHz
- ◆ RAM – 256 Mbytes
- ◆ Disk – 40 GBytes
- ◆ Ethernet Interface – 10/100 Mbps

CHANNEL MANAGER

Channel Manager is a software facility built into every NTB. It allows a collection of NTBs (a Channel) to be controlled through one NTB in the group – the designated Channel Publisher.

The operator manages the Publisher using the NTB's regular WEB Browser interface. Once updates are complete, the operator decides an Activation Time and clicks a button in a WEB page on the Publisher. The Publisher then takes a snapshot of all required media and control files and copies them to a regular File Transfer Protocol (FTP) server.

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Meantime, Subscriber NTBs are polling the CCS for changes in the Channel. Once a change is seen, the Subscriber pulls down the required changes (using FTP or HTTP file transfer protocols) and Activates the new Schedule at the indicated Activation Time.

The NSM allows an operator to monitor the progress of Publishing and Subscription separately from the control of these functions.

FILE TRANSFER PROTOCOL SERVER (FTP)

FTP/WEB storage server normally based in the Internet, that allows NTBs to collect their PlayList, Schedules and Media using regular network transfer protocols. The CCS(s) can be a customer owned server or low cost storage space provided by an Internet Services Provider (ISP).

NTB PRODUCT OUTLINE

- ◆ Multi-media, multi-zone network player.
- ◆ Hard disk based local storage.
- ◆ Any number of zones at any position or size.
- ◆ Locally received video input into a display zone.
- ◆ Integrated DVB or Analogue TV Tuner

NTB MEDIA HANDLING

- ◆ Video MPEG1, MPEG2, DivX, local analogue.
- ◆ Animation Flash™ SWF, HTML (with JavaScript).
- ◆ Stills JPEG, TIFF, GIFF, PNG.
- ◆ Audio MPEG-1 Layers 1 and 2, MP3, Real.
- ◆ Text Scrolling or fixed. Horizontal or Vertical.

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