



# **Brief Technical Description**

System Configurations  
November 2007

## Overview

The Boomerang system is a generic and universal tool that can be configured to operate in several different modes. This document is intended to give a brief overview of the most common configurations, infrastructure to be used and ways to integrate modules and accessories into a Boomerang system.

The Boomerang software is available in two versions.

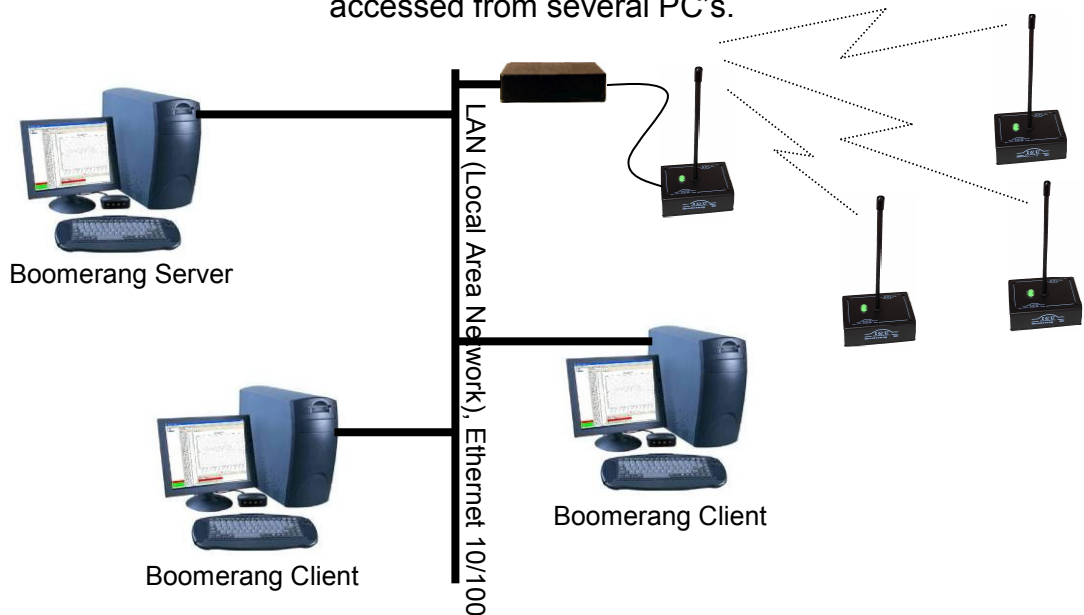
### 1. Boomerang Desktop

for stand-alone applications controlled from one PC.



### 2. Boomerang Server-Client

for network applications where data needs to be accessed from several PC's.



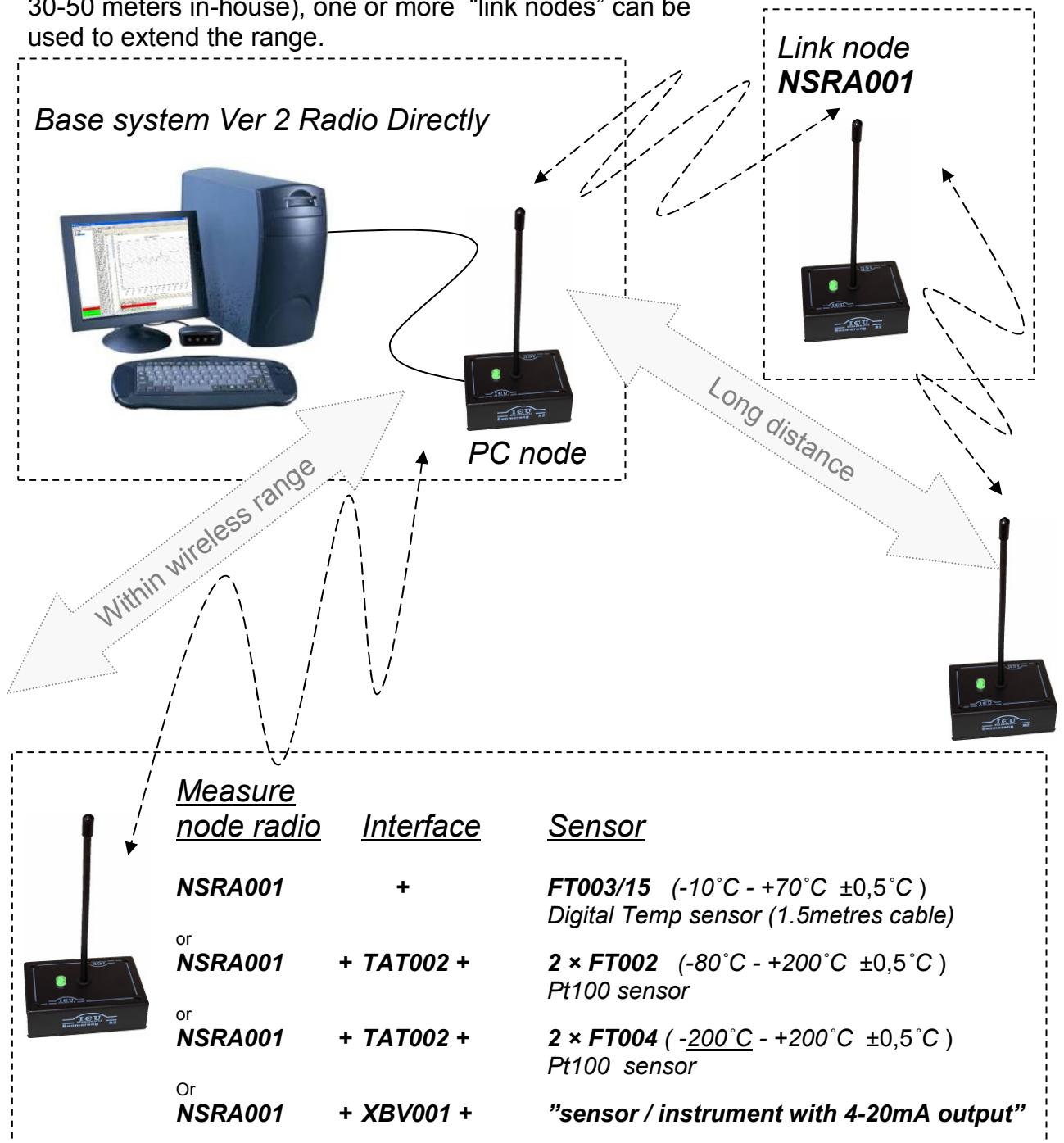
Boomerang Desktop and Server-Client can be setup in several configurations:

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## Basic Configuration

The Boomerang system is installed on a Windows XP computer and the communication is wireless (via a PC node) with the “measuring nodes”.

If a “measuring node” is outside the wireless range (typically 30-50 meters in-house), one or more “link nodes” can be used to extend the range.



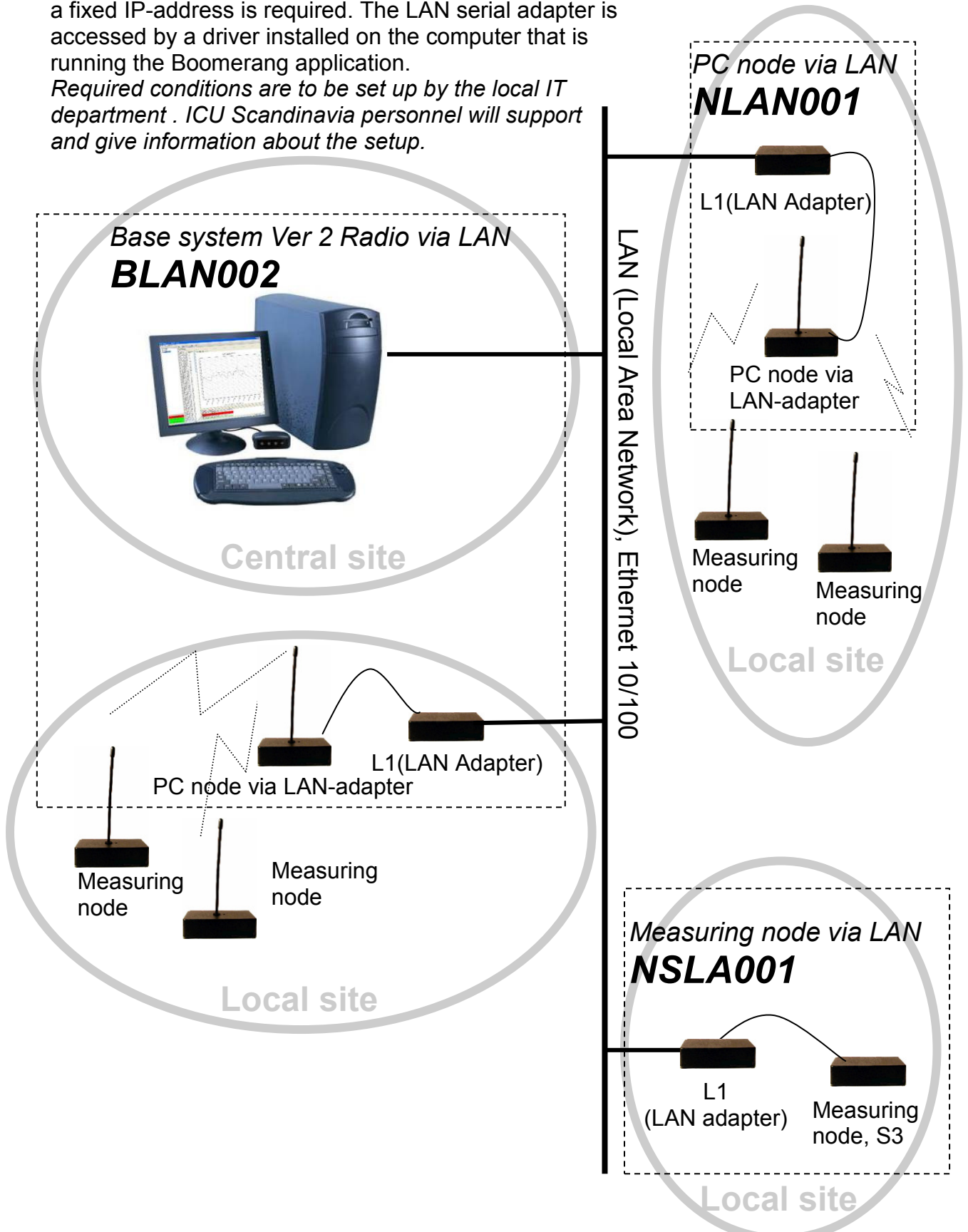
## Measuring Points

Various configurations on each measuring point are possible depending on data measured or logged, e.g. temperature, humidity or values from other sensors. Please see above some of the most common combinations.

## Using the LAN Serial Adapter in a Company LAN

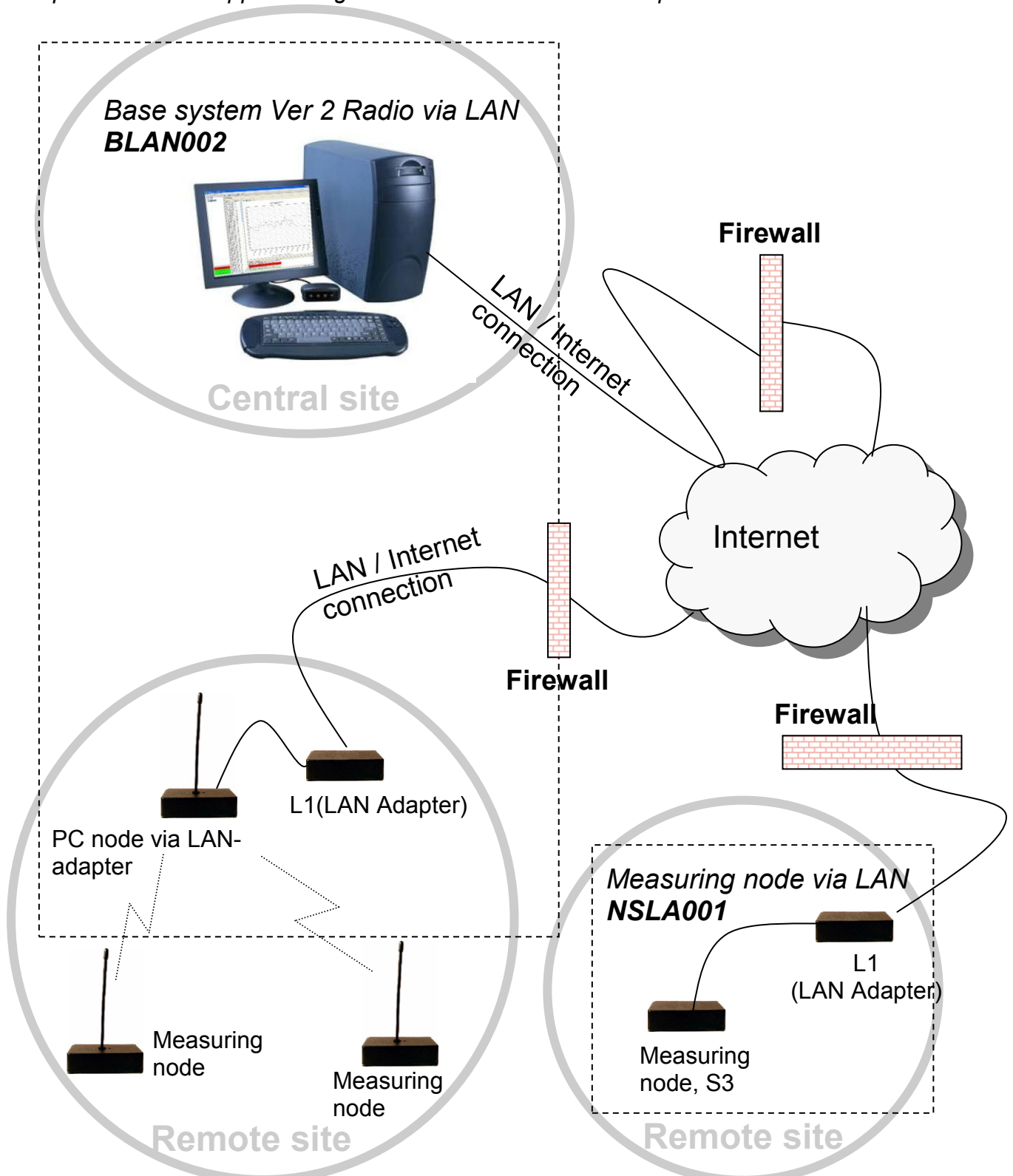
When using the LAN serial adapter on the company LAN, a fixed IP-address is required. The LAN serial adapter is accessed by a driver installed on the computer that is running the Boomerang application.

*Required conditions are to be set up by the local IT department . ICU Scandinavia personnel will support and give information about the setup.*



## Using the LAN Serial Adapter in an Internet Solution (WAN)

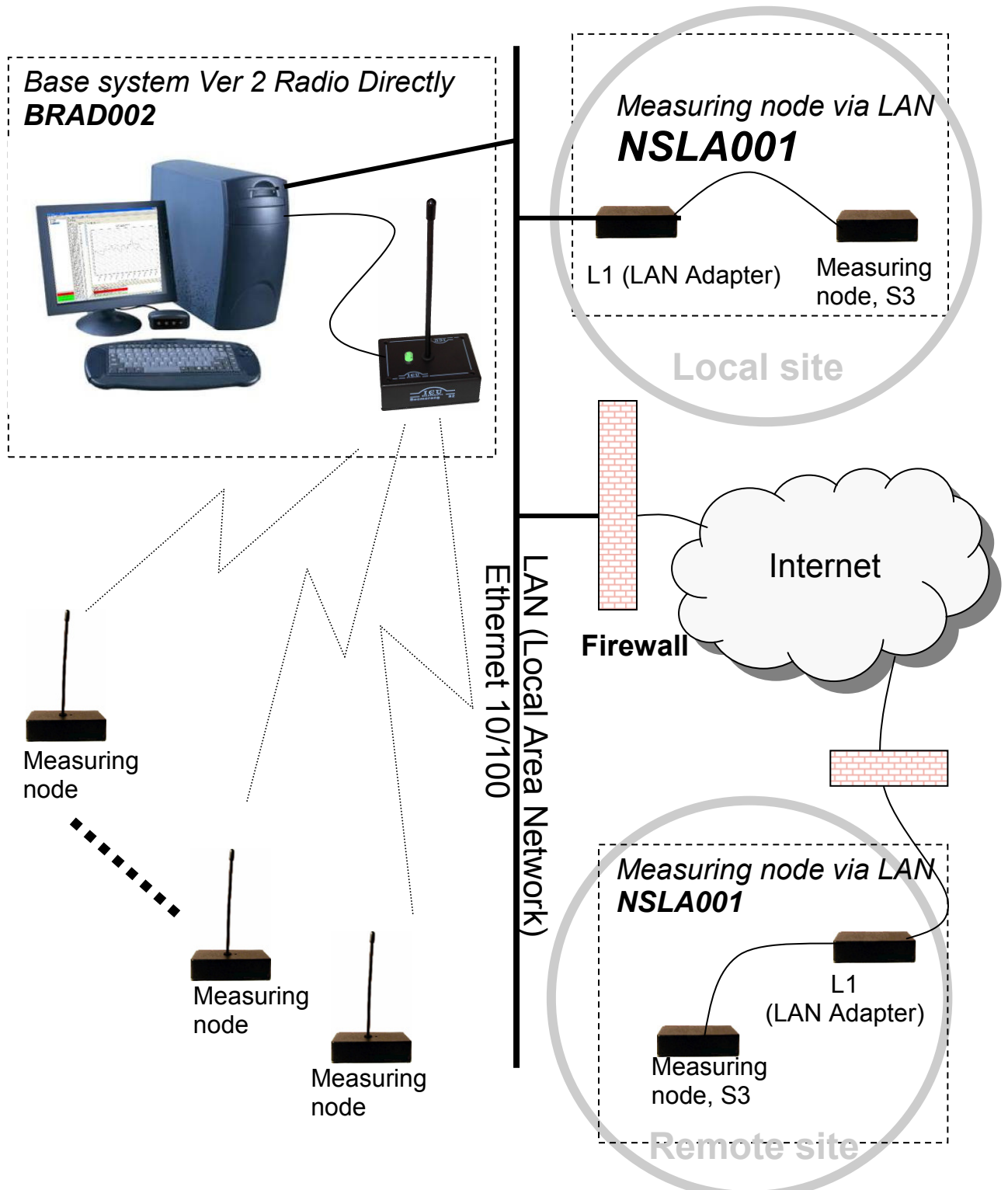
When using the LAN serial adapter in an Internet solution it is important that firewalls and routers are prepared and set up to allow the traffic between the LAN serial adapter and the computer that is running the Boomerang application. *Required conditions are to be set up by the local IT department. ICU Scandinavia personnel will support and give information about the setup.*



## Using the LAN Serial Adapter in a Combination of LAN and WAN

It is possible to use the LAN serial adapter in combinations of company LANs and in Internet solutions.

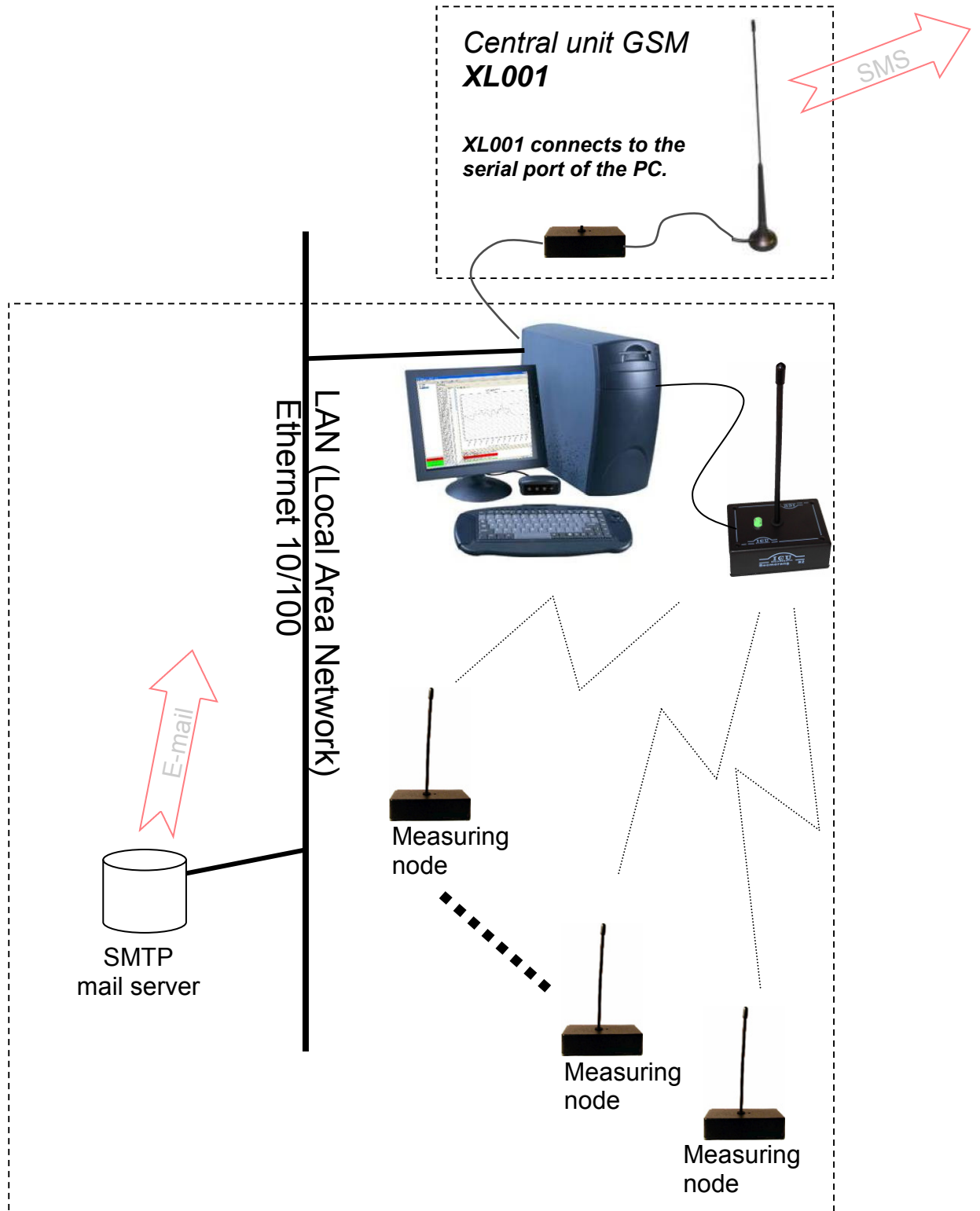
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## Alert Configurations

Boomerang provides different types of alternatives to indicate alerts. Ranging from software features like e-mail notification or the GSM accessory for indication via SMS.

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## Alert Configurations for LAN Accessories

Boomerang provides several types of accessories for indications or alerts communicating over a LAN. When using the accessories on a company LAN they shall have a fixed IP-address.

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