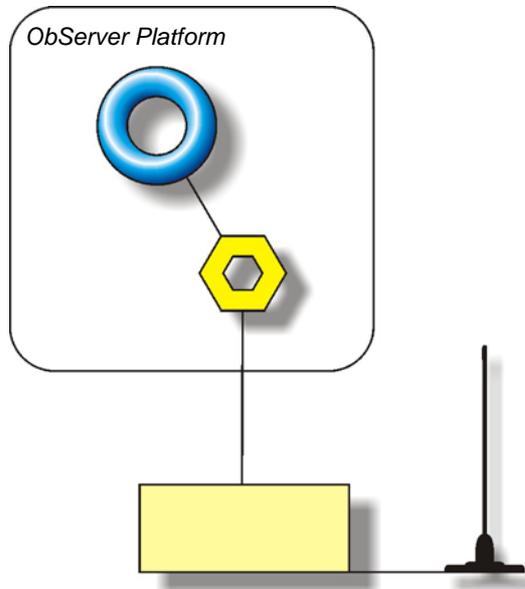# Product Engineering Guide

OSM v20 Espa444 v11

Introduction

The Espa444 OSM links paging equipment that supports the ESPA 4.4.4 protocol, including the Philips DP6000 system to ObServer.

Triggering Messages

The ESPA444 driver has 16 triggers available, allowing other devices connected to ObSever to trigger pager messages. Each trigger has the following objects:

Pager Address - which pager to send the message to
Bleep Code - tone to use with message
Message - message to send
Value - value to append to message

Trigger messages are controlled by the Value. The value is set when, for example, an alarm occurs elsewhere on ObServer.

Engineering

Step 1 – Install OSM

The Espa444 OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Connect COM port to Philips DP6000 System

Using cable, connect the Philips DP6000 to a free COM port on the PC. Refer to the section 'Cable' below for details of the cable.

Step 3 – Plug in the Espa444 OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the Espa444 OSM to an available channel. Refer to *'ObServer v20 Application Engineering Guide'.*
Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 4 – Configure the Espa444 OSM

The COM port, baudrate, byte format and device number are configured using objects. Use object engineering software to view and modify the objects within the OSM.
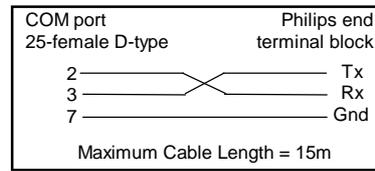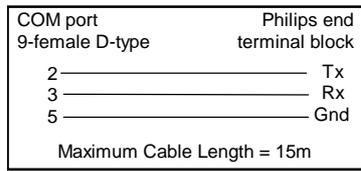
Step 5 – Access Objects within the Philips DP6000 System

Values from the Philips DP6000 System are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the Philips DP6000 hardware is as follows:

```
COM port              Philips end
9-female D-type       terminal block
2 ─────────────────────── Tx
3 ─────────────────────── Rx
5 ─────────────────────── Gnd

Maximum Cable Length = 15m
```

```
COM port              Philips end
25-female D-type      terminal block
2 ──────────────╲╱────── Tx
3 ──────────────╱╲────── Rx
7 ─────────────────────── Gnd

Maximum Cable Length = 15m
```

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object[1]	Label	R/W	Type
S*c*	Espa444 System connected to channel *c*	-	*[Espa444 v11]*
M*c*	Espa444 Module connected to channel *c*	-	*[OSM v20\Espa444 v11]*

Notes

[1]   The ObServer channel number, *c*, is a number in the range 1…40.