

# Application Note

Product: Ascom and Rauland 4000 Nursecall  
Purpose: Integration of Ascom messaging system and an external equipment.  
Date: 1/10/08

## Ascom and Rauland 4000

### Overview

All Ascom systems can be integrated with external equipment such as nursecall systems, alarm systems, and others by adding a T942SI Serial Interface Module. The T942SI functions as a protocol translator, converting the message sent by the external system to a paging that is sent to an Ascom pocket unit (pager) or Ascom handset. In this document, the external system will be a Rauland Responder 4000.

### Hardware Requirements

#### Ascom Hardware

##### teleCOURIER Paging System

942C Central  
U952T Transmitter  
942SI Serial Interface (TAP)

##### Ascom FreeNET, IP-DECT or DECT System

IMS (IMS WiFi, IMS IP-DECT, IMS DECT)  
942SI Serial Interface (TAP)  
Medamax (Optional for Advanced Messaging)

#### Rauland Responder 4000 Hardware

Model verified is the Rauland-Borg Responder 4000 with R4KWARE Version 1.0 installed

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## Configuration

### Ascom (All Systems)

Configure the Ascom system as normal and add the T942SI module. The 942SI Serial Interface should be configured for the TAP protocol. 9600, 7, E, 1. If the Medamax is to be used, it is connected to the 942SI-TAP via the A-BUS.

***Install the Medamax/R4000 default database provided by Ascom and modify to meet the customer's needs. Modify the Event Elements and Action Configuration to the specific customer.***

*Examples of Event Elements are:*

- call type
- call type description or message body
- room
- bed

*Examples of an Action for an Event is:*

- Normal Call

*Examples of an Action are:*

- Message  
To send messages to a specific destination and with a confirmation request.
- Interactive Message  
To send messages with different response options included. The response is sent back with chosen option.

*Examples of Message Options:*

- Normal  
Default, no message response.
- Manual Acknowledgement, Accept  
if you want acknowledgement with only accept.
- Manual Acknowledgement, Accept/Reject  
if you want acknowledgement with the possibility to accept and reject.

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### *Examples of Interactive Message options:*

There are three different option folders where data can be configured:

- Data  
this is used for adding response data that should be displayed in the Handset.
- Call  
this is used for received data when a call is disconnected, and when to disconnect a call.
- Options  
this is used for erasing messages/Option IDs, disable/enable Option IDs.

***Refer to document TD 92364GB User Manual Administration, Medamax for Action Configuration and Event Configuration options.***

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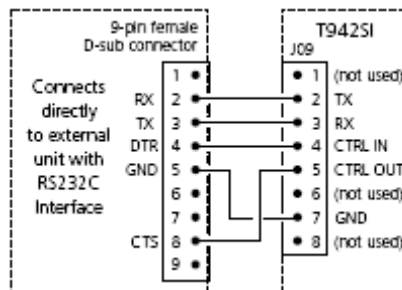
## Rauland Responder 4000

The Rauland Responder 4000 system will need to be set up for the TAP 1.8 protocol.

For further details, please refer to the configuration and installation manual of the Rauland Responder 4000.

## Connection

Connect the R4000 pocket pager port to the 8-pin modular connector J09 on the 942SI Serial Interface according to the applicable drawing below.



## Additional Information

If you have any questions about this bulletin, please contact Ascom Technical Services at 1-877-712-7266 option 3.