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| elysiumtest.gif |
| ASET-WHIS interface |
| Ministry of Defence ASET-EMIS PAS interface |
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| A description of the ASET-WHIS patient administration interfaces as implemented in the laboratory information management system (ASET). This document also outlines the required configuration steps required in ASET to activate the interfaces. |

Introduction

# Objectives

The purpose of this development is to provide an automatic interface between the ASET laboratory management system deployed in Camp Bastion and the recently installed Whole Hospital Information System (WHIS). The interface is to deliver three sets of functionality:

1. Patient demographic download. This delivers changes in patient demographic data entered in WHIS to the laboratory system such that the laboratory system has an accurate and up to date copy of patient data. WHIS acts as the master demographic data source and the laboratory system as a slave.
2. Pathology request order. This allows pathology request placed on WHIS to be transmitted to the laboratory system and the tests to be automatically scheduled.
3. Pathology result delivery. Validated pathology test results are transmitted from the laboratory system to WHIS so that they can be automatically attached to the main patient record.

The interface functionality was to be delivered using HL7 messages passed between the two systems using TCP on the existing network infrastructure.

# Implementation

The original specification called for three separate interfaces, one each for each of the required areas of functionality. During the initial design stage it became apparent that a simpler approach would be to develop two interfaces, one for all inbound communication (WHIS to ASET) and a second for all outbound communication (ASET to WHIS). These two interfaces are internally designated as:

1. WHIS Demographic interface. This is the ASET inbound communication channel over which demographic updates and pathology test orders are accepted. This is implemented in ASET as a standard TCP server where the laboratory system listens for all incoming TCP communication on a designated port and deals with them accordingly. This is an always on interface that runs in the background on a designated ASET laboratory client machine.
2. WHIS Result interface. This is the ASET outbound communication channel over which validated pathology test results are delivered to WHIS. This is implemented as a standard TCP client where ASET attempts to open a TCP connection to a specified TCP address and port on which the WHIS interface engine is listening. This interface is launched on demand from any of the ASET client workstation whereupon it runs to completion and terminates. This interface also delivers order status update messages to WHIS and so it is invoked whenever pathology results are validated and whenever new orders are accepted or cancelled.

Configuration

# General configuration

The purpose of this development is to provide an automatic interface between the ASET laboratory management system deployed in Camp Bastion and the recently installed Whole Hospital Information System (WHIS). The interface is to deliver three sets of functionality:

# WHIS Demographic interface

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# WHIS result interface

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