DCMTK - Bug #862

DIMSE_findUser() does not properly handle DIMSE_NONBLOCKING

2018-12-10 13:23 - Marco Eichelberg

Status:	New		**Start date:**	2018-12-10
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:	Library		**Estimated time:**	0:00 hour
Target version:				
Module:	dcmnet		**Compiler:**	
Operating System:				

Description

When I call DIMSE_findUser() with DIMSE_NONBLOCKING, it does not honor the non-blocking directive and instead blocks for a long time which causes our UI to hang. DCMTK is blocks until complete, ignoring DIMSE_NONBLOCKING. See code snippet below:

```
//  this code calls DIMSE_findUser() which blocks until done, the DIMSE_NONBLOCKING flag
//  is not honored.  If I put 0 for a timeout I get an error. This code blocks until done

const auto cond = DIMSE_findUser(m_assoc,
    static_cast<T_ASC_PresentationContextID>(nPresentationID),
    &request, &m_dataset,
    responseCount,
    _FindUserCallback, this,
    DIMSE_NONBLOCKING, m_nResponseTimeout / 1000,
    &response, &statusDetail);
```

If I set [the timeout] to 0 (which makes sense for non-blocking) it returns with an error, "error non-blocking with 0 timeout" or something like that. If I set it to 100, it complains depending on the number of records. If I set it to 200, I think it fails find all the records, for cases where there are many records or a slower network connection.

Reported 2018-12-03 by Richard Breen <richard.breen@abbott.com>

Related issues:

Related to DCMTK - Bug #395: More possible timeout problems in the networking...	**New**

History

#1 - 2018-12-10 15:12 - Jörg Riesmeier

- Related to Bug #395: More possible timeout problems in the networking module... added