WISE Discover Device

Maemo Platform

```
int search_servers(wise_connection_manager* manager)
{
    inquiry_info *inquiry=NULL;
    int max_rsp,num_rsp,device_id,socket,len,flags,index;

    /* Get local device ID */
    device_id = hci_get_route(NULL);
    if ( device_id < 0 ) return WISE_CONNECTION_ERROR;

    /* Open socket */
    socket = hci_open_dev( device_id );
    if ( socket < 0 )  return WISE_CONNECTION_ERROR;

    len  = 8;
    max_rsp = 255;

    /* Flush existing Bluetooth devices */
    flags = IREQ_CACHE_FLUSH;

    /* Search Bluetooth devices */
    inquiry = (inquiry_info*)malloc(max_rsp * sizeof(inquiry_info));
    if ( inquiry==NULL ) return WISE_CONNECTION_ERROR;
    num_rsp = hci_inquiry(device_id,len,max_rsp,NULL,&inquiry,flags);

    for ( index=0; index < num_rsp; index++ )
    {
        wise_device* device = malloc(sizeof(wise_device));
        if ( device!=NULL )
        {
            ba2str(&(inquiry+index)->bdaddr,device->BT_address);
            if ( search_service(manager,device,logger)!=WISE_OK ) free(device);
            else add_server(manager,device);
        }
    }
    free(inquiry);
    close(socket);
    return WISE_OK;
}
```

S60 Platform

```
struct TDeviceData
 {
 THostName iDeviceName;
 TBTDevAddr iDeviceAddr;
 TUint iDeviceServicePort;
 };

typedef RPointerArray<TDeviceData> TDeviceDataList;
TDeviceDataList iFoundDevices;
```

```
void CWISEConnectionManager::SearchServersL()
 {
 RHostResolver resolver;
 TInquirySockAddr addr;
 TNameEntry entry;

 // reset search arrays
 iFoundDevices.ResetAndDestroy();

 // load protocol for discovery
 TProtocolDesc pdesc;
 User::LeaveIfError(iSocketServ.FindProtocol(KBTLinkManagerTxt(), pdesc));

 // initialize host resolver
 User::LeaveIfError(resolver.Open(iSocketServ, pdesc.iAddrFamily, pdesc.iProtocol));

 // start device discovery by invoking remote address lookup
 addr.SetIAC(KGIAC);
 addr.SetAction(KHostResInquiry|KHostResName|KHostResIgnoreCache);
 TInt error = resolver.GetByAddress(addr, entry);
 while ( error==KErrNone )
  {
  TDeviceData *devData = new (ELeave) TDeviceData();
  devData->iDeviceName = entry().iName;
  devData->iDeviceAddr =
   static_cast<TBTSockAddr>(entry().iAddr).BTAddr();

  devData->iDeviceServicePort = 0;
  iFoundDevices.Append(devData);
  error = resolver.Next(entry);
  }
 resolver.Close();
 }
```

Links

- Archived:Wireless Information Sharing Engine
- WISE Protocol
- WISE Discover Service

(C) Copyright Nokia 2013. All rights reserved.

(C) Copyright Nokia 2013. All rights reserved.

(C) Copyright Nokia 2013. All rights reserved.