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| NRC SmartLink | By: Eric Faust Date: Nov 6th, 2015 |

## Purpose

* Create an NRC version of SmartLink
* Rebranding everything from OCS to NRC
* Remove the database extract service
* Modify security to prevent connecting to OCS servers
* Provide documentation and source code overview

## Projects

* SmartLink client
  + SmartLink Transfer: Windows service to send files to the SmartLink web service
  + SmartLink Updater: Updates SmartLink by checking for updates from the SmartLink web service
    - Currently this service is not working but it appears that most of the code is available to get this functionality to work
  + SmartLink Service Manager: Windows forms app to allow clients to update SmartLink settings and start or stop their services
* SmartLink web service
  + Receives files from the SmartLink client

## Visual Studio

* In order to open a “.vdproj” project in Visual Studio 2013 or 2015 the “Microsoft Visual Studio 2015 Installer Projects” extension will need to be installed.
  + https://visualstudiogallery.msdn.microsoft.com/f1cc3f3e-c300-40a7-8797-c509fb8933b9

## Email templates

* The files used for sending html emails are not included in the installation
  + Contact information will need to be updated if used
* The default Operator Email has been set to support@nationalresearch.com

## General

* Some paths are hardcoded for testing to a local path
* The AutoUpdater is included in SmartLink but it currently does not work. I will leave it in in-case you want to look into fixing it or removing it.
* There is a SmartLink config setting “InstallKey” but it does not appear to be used anywhere

## Changes

* Bumped .NET from 3.5 to 4.0
* All “OCS” references have been changed to “NRC”
* Icons have been changed
* The “OCSLogger” class has been renamed to “Log”
* The “Extraction” service and vendor information have been removed
  + This service was used to import data from different vendor databases
* Changes to the installer:
  + Product version has been reset from 2.0.0002 to 1.0.0
* Changed from MySQL to SQL database
* The web service has been renamed from “DataRetrievalWS.asmx” to “SmartLinkWS.asmx”
* Changed the PRIVATE KEY used to confirm communication between SmartLink and the web service
* The setting “InstalledSmartLinkVersion” was not being set when SmartLink is installed. I’ve set it to 1.0.0

## Notes

* The following error occurred so I’ve listed these dlls to not be included in the install:

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| ERROR: 'msado28.tlb' should be excluded because its source file 'C:\Program Files (x86)\Common Files\System\ado\msado28.tlb' is under Windows System File Protection.  ERROR: 'oledb32.dll' should be excluded because its source file 'C:\Program Files (x86)\Common Files\System\Ole DB\oledb32.dll' is under Windows System File Protection. |

* The Deployment project “vdproj” will create the following files “NRC.SmartLink.msi” and “setup.exe”. You can delete the “setup.exe” file, it is not needed by the msi file installation file.

## Wiki

* A lot of the wiki documentation is outdated
* I’ve downloaded a copy of the wiki pages to html files in the documentation folder
* Links
  + SmartLink Client:  
    <http://ocswiki.nationalresearch.com/index.php/SmartLink_Client_ReleaseNotes>
  + SmartLink Web Service:  
    <http://ocswiki.nationalresearch.com/index.php/SmartLink_WebService_ReleaseNotes>

## Recommendations

* The browse form for selecting polling directories is not user friendly. It would be nice to replace it with one where you can paste or edit the folder path.
* Once a file has been received there is really no way to know where the file came from. It would be good to include information in the table SmartLinkWebService linking to the client.
* The html files used for rich emails are not currently a part of the installation and it should not be difficult to update those files and include them in the installation
  + The email images are set as url links in the email. If they are embedded then the user will see the images without having to click ok to view the images.