North star BlueScope Steel (NSBS)

NSBS RxE interface to OpenTrac  
Proposal by As&e

July 21, 2016

# Overview and statement of work

## Project Background and Description

NSBS Requires new interfacing to the RxE for a new OpenTrac system that is being installed. This new system will include approximately 150 new OpenTrac transactions to the system, with about 90 being supplied mostly from the NSBS systems SPC and Maximo, and about 30 coming from OpenTrac, with some of these to NSBS Dynamics. These are categorized into approximately 13 Sync Groups, as can be seen in the example document flow diagram “Nucor OT DataFlow NorthStar.doc”.

The mechanism/protocol employed by OpenTrac is described in more detail in the “Open Trac Director User Guid – North Star Synchronization Queus-v1.0.doc”.

NSBS is providing the definition of the SPC, Maximo, and Dynamics tables and the RxE system will provide the interfacing of the messages to and from NSBS and

At present, the system is being formalized by NSBS and Northrop Grumman (NG). The informNSBSon in this document is based on emails and documents received in July, 2016. These documents include:

1. Transaction Tables Excel spreadsheet
2. North Star SYNC Queue Transactions Word document
3. Sample Dataflow (from other NG client)
4. Tables for NorthStar FULL List Excel document
5. Table Report (HTML) that lists the tables and their fields

## Project Scope

The scope of this project includes:

1. Assisting with design
2. Modifying the RxE system according to the design
3. Testing and documenting the changes.

## Deliverables

This project will provide:

1. Configuration for all new nodes and pipes
2. Custom logic DLLs, if required.
3. All source code for any software developed for this project.
4. Documentation for the new system.

## Affected Systems

This system is an upgrade/modification to the existing RxE communications system. It will be able to run in parallel with and not impact the existing system.

## Assumptions and Exclusions from Scope

### Assumptions

It is assumed that NSBS will make NSBS personnel available during the course of this project to assist in the understanding and configuration of the system. Specifically:

1. NSBS is providing the software environment for the RxE systems used on this project.
2. NSBS will assist with the configuration for the parallel test.
3. NSBS will permit remote access by AS&E to the development environment. Most of the development for this project will be remote from the AS&E Pittsburgh office.
4. NSBS personnel involved with the project will use Visual Studio 2015 Professional, Release 3, which will be the IDE used to build and develop this system.
5. NSBS personnel will assist with both unit testing and the full system tests.