

## Govern OpenForms Release 1603 Services and Batch Processing

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### Agenda

- Batch Processing
  - Batch Scheduler Services Installation

# Batch Processing / Govern Scheduler

Batch Processing Overview

Govern Scheduler & Services

Installation

### **Batch Processing**

Introduction

#### Resources

- Wiki Resources
  - OpenForms General <u>Batch Processing</u>
  - Govern Standard Feature
  - Govern Admin GNA Batch Editor
  - Govern Scheduler

- Education
  - Govern Administrator Section 2 Installation

[PRODUCT] OpenForms

INSTALLATION
UPGRADE
RESOURCES
BATCH PROCESSING
OF REFERENCE
STANDARDS
SYSTEM REQUIREMENT
WHAT'S NEW | IMPACT
ASSMT

[WIKI] Harris | Product | PKO | Education | Service | Support | Employee | Sales | BPRB

[SYSTEM SERIES]

[OpenForms] Govern | GNA | BED | OFD | GSM | Scheduler [System Options] | [3rd Party] | [API/Services] | [Projects] | ...

#### What's New

- Batch Process Definition will be kept in the Openforms Reference and available for distribution
- Archive Path
  - Input files will be copied here once processed with or without a date stamp

#### Terms and Definitions

- Batch Program: Refers to standard or custom code developed in Govern to perform one or more actions for a selection of entries meeting predefined conditions (business rules) and/or user defined parameters.
- Batch Process Name: Identifies the method or class name executed in code when launched, stored in the VT System, Table Name = 'BATCH\_PROCESS' as a code
- Batch Process Definition: A batch process definition is used to setup the batch process options and execution parameters.
- Audit Batch ID: Once a batch process definition is launched, a batch audit ID sequence is assigned and errors, warnings and information is recorded for the batch ID in the Batch Audit Table
- Batch ID: When a batch process definition is created, it is assigned a batch id. Listed in the Batch Audit Result window and in the Import/Export EMT function.

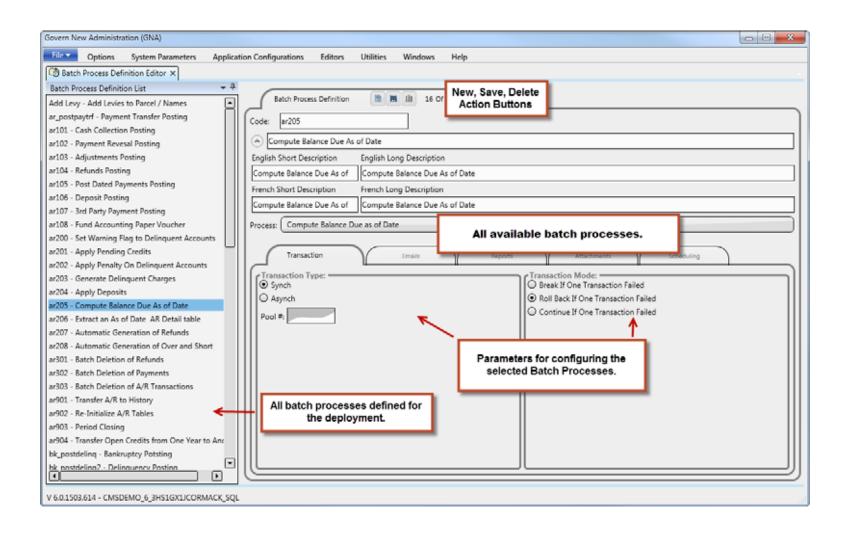
### Systems

#### • Systems:

- Govern (Standard User Feature)
- Govern Administrator (Batch Process Editor and Schedule Creation)
- Govern Scheduler
- Govern Batch (Execute OpenForms Batch program from Govern for Windows)

What's New?

#### Govern Administrator

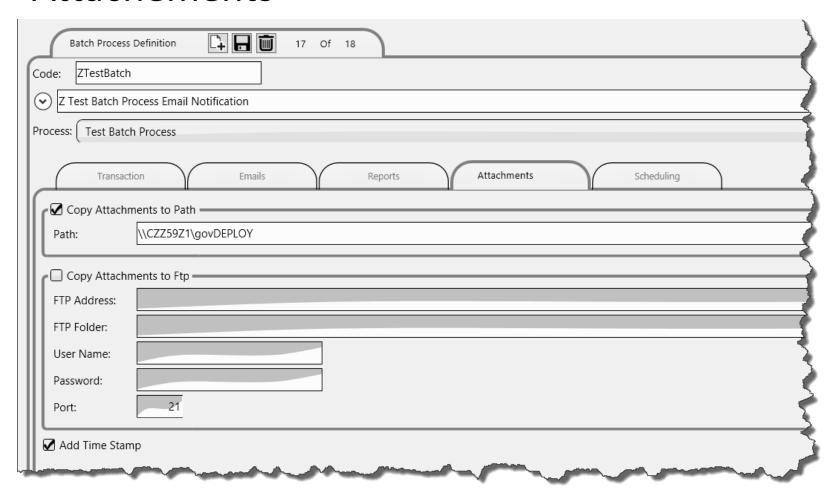


### Specifications

- Standard Features include:
  - <u>Execution</u> Mode/Type/Connection configuration
  - Reporting
  - Email notification
  - Scheduling (with Govern Scheduler)
  - File Transfer and Attachments
  - What's new

#### Features - Attachments

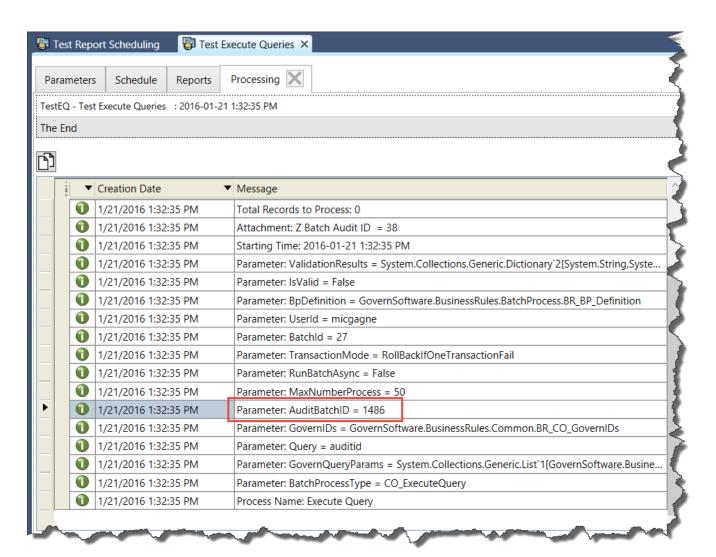
Attachements



#### Standard BPs

- Distributed Batch Processes include:
  - <u>Test Process</u> used to test batch processing and configuration parameters
  - Execute Query Process used to execute select and update queries
  - Report Scheduler Process used to execute a report schedule

### Features - Reporting



### **Before Getting Started**

- System Requirement
- Email Notifications
  - SMTP Server Information
  - SMTP Dummy Server for testing
- Port to use
- Batch Server Folder Path Security
  - Pc/Server on Domain & Folder accessible to all
- Archive Path (new) and Attachment Paths
- Server Name must be allowed to the shared location

General Connection Parameters
General
Minimum Connection Pool Size: 1
Maximum Connection Pool Size: 100
Minimum Cache Size: 50
Maximum Cache Size: 5000
Cache Refresh Rate: 300
c Oracle
Increment Pool Size: 1
Decrement pool size: 3
Batch Parameters
Maximum Connection Pool Size: 1000
Connection Time Out (sec): 0
e Web Parameters
Maximum Connection Pool Size: 100
Connection Time Out (sec): 30
Save Exit

#### **GOVERN SCHEDULER**

Step by Step Installation

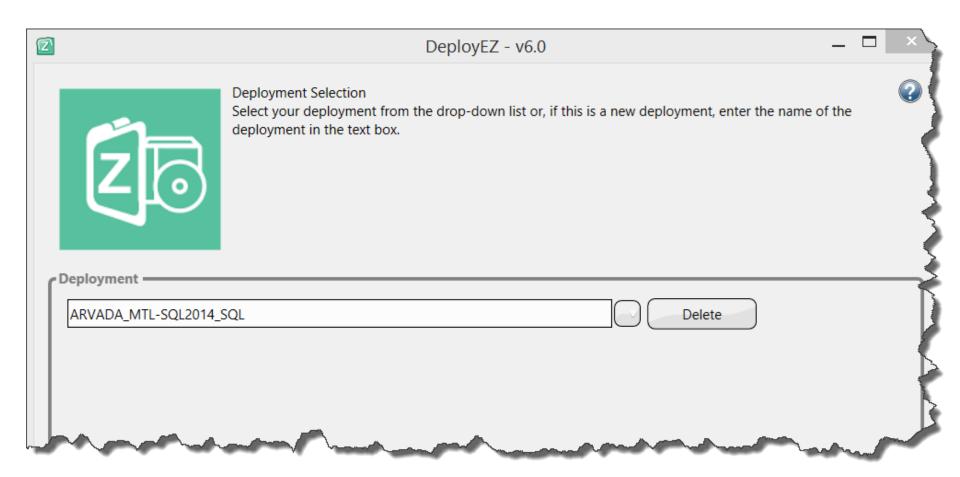
### Step 1 – Deploy

- On the source environment (connection key for which we want to have a scheduler batch service)
  - a) deploy the latest binaries
  - b) run a database verification
    - (standard practice after a deployment)

In the example that follows, we are setting up a Batch Scheduler Service for the following deployment:

Arvada\_MTL-SQL2014\_SQL

### DeployEZ



### Mandatory Deployment

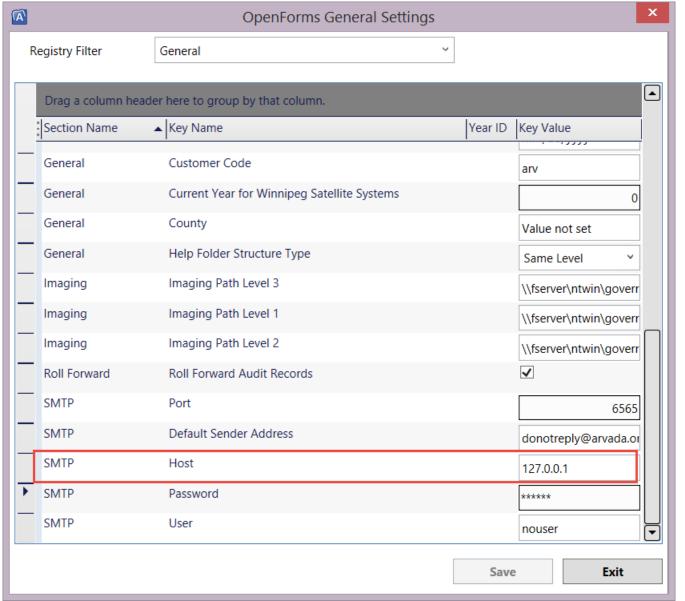
- Binaries:
  - Resources
  - Custom Control
  - System Files
  - Govern Scheduler
- Services:
  - Govern Scheduler Service
  - Govern WCF Services
- Govern Install Pack

#### Update ARVADAMTL-SQL2014\_SQL Deployment ARVADA\_MTL-SQL2014\_SQL Connection Key Select All / Unselect All 6.0.1511 Filter Resource Files 6.1.1601.0030 6.0.1511.0263 System Files 6.0.1511.0263 6.0.1511.0263 Govern Custom Control 6.0.1511.0263 6.0.1511.0263 Govern Govern (V6) 6.0.1511.0263 Govern New Admin (GNA) 6.0.1511.0263 Govern Business Entity Designer (BED) 6.0.1511.0263 Govern Model Designer (MOD) Govern Open Form Designer (OFD) 6.0.1511.0263 Govern Security Manager (GSM) 6.0.1511.0263 Govern Query Tool (QT) 6.0.1511.0263 ✓ Govern Scheduler 6.0.1511.0263 6.0.1511.0263 ✓ Govern Scheduler Service 6.0.1511.0263 6.0.1511.0263 ✓ Govern WCF Services 6.0.1511.0263 6.0.1511.0263 Govern Validator 6.0.1511.0263

#### **GOVERN SCHEDULER**

**Email Notifications** 

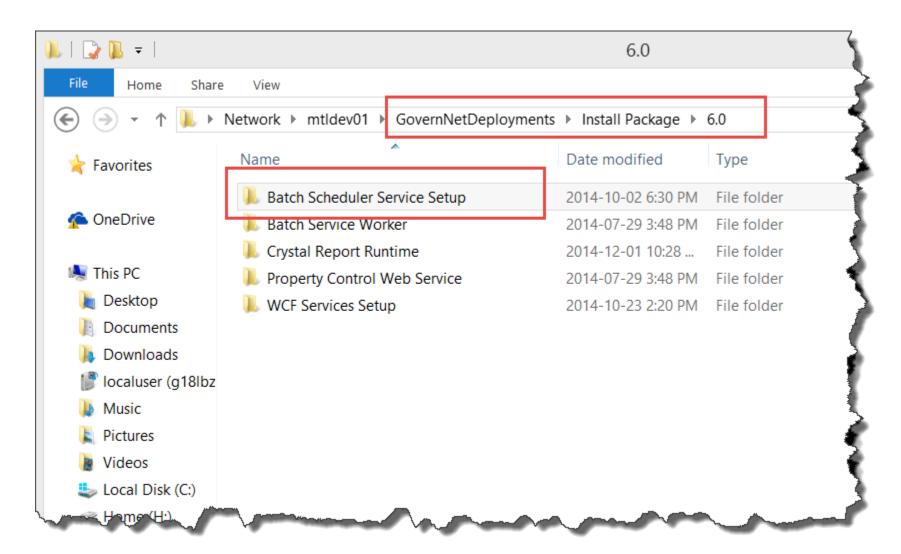
### Step 2- SMTP Server



#### **GOVERN SCHEDULER**

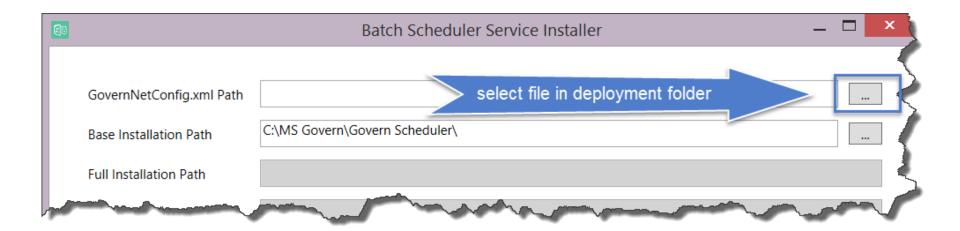
Install Batch Scheduler Service (BSS)

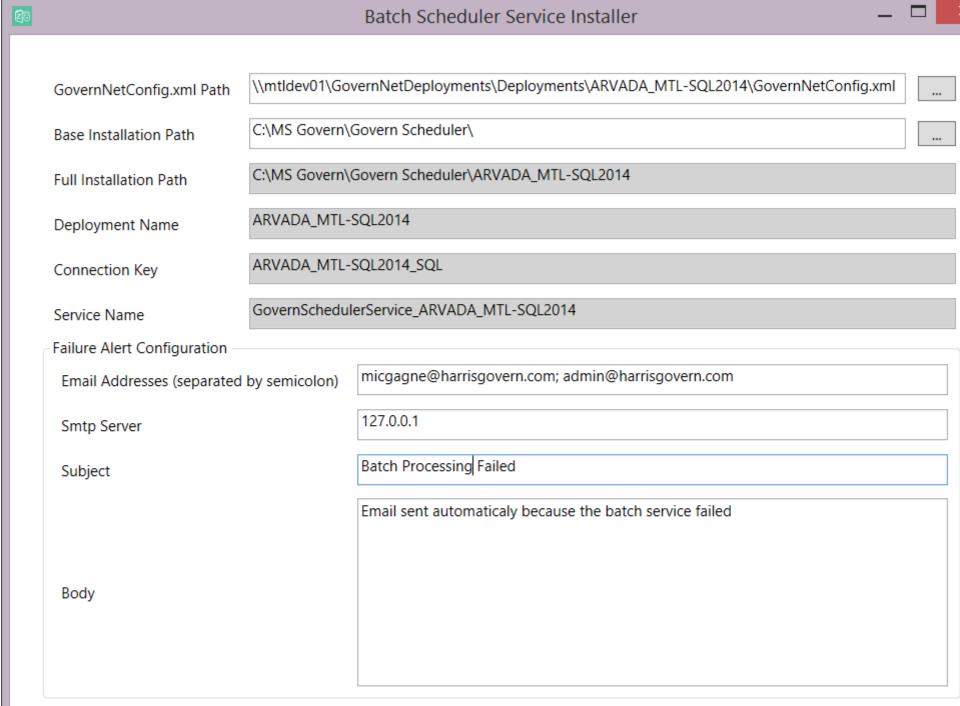
### Step 3 – Install BSS



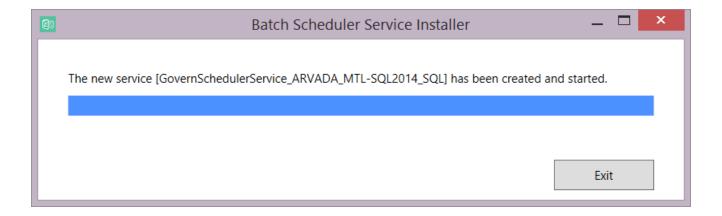
#### **Execute Setup**

- Download Install Package
- Log in to the server where you are setting up the Govern Scheduler application
- Double click on BatchSchedulerServiceSetup.exe

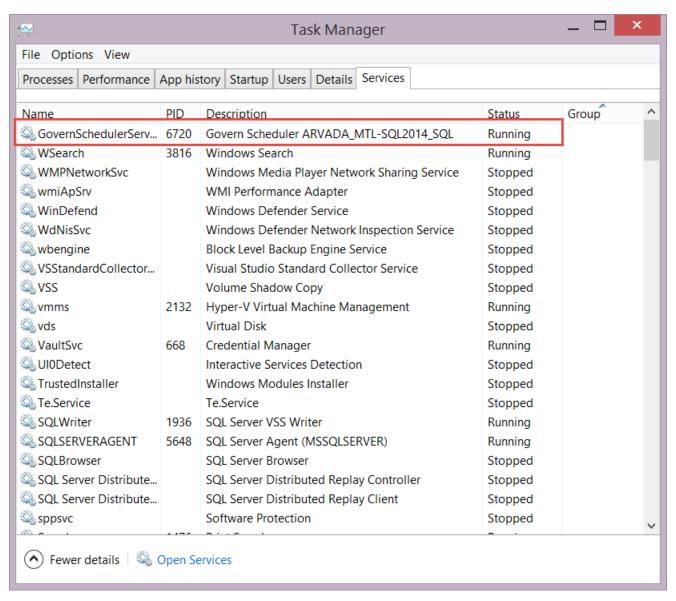




#### When Completed



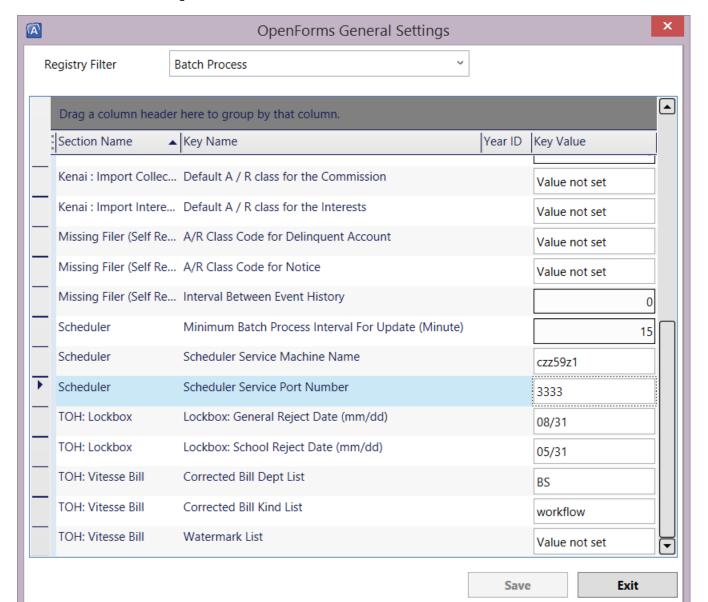
### Task Manager - Services



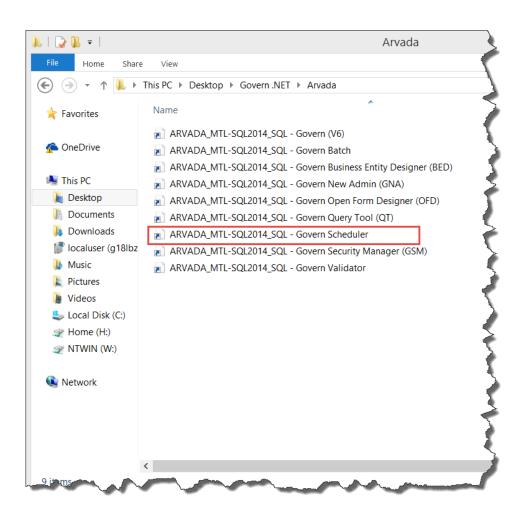
#### Services More Details

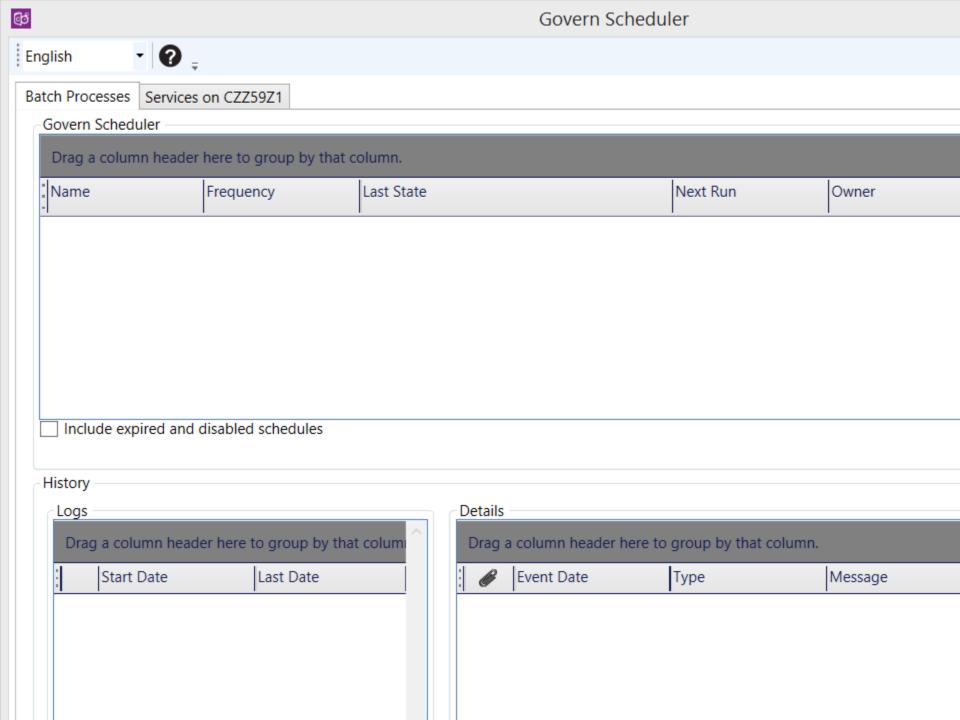
<u>~</u>						Task Manage	r
Eile <u>O</u> ptions <u>V</u> iew							1
Processes   Performance   App history   Startup   Use	ers Detail	Servi	ices				-\$
Name			Description	on	Status	Group	
\$\text{fhsvc}\$			File Histo	ry Service	Stopped	LocalSyste	7
			Windows	Font Cache Service	Running	LocalService	
FontCache3.0.0.0			Windows	Windows Presentation Foundation Font Cache 3.0 Running			3
GovernSchedulerService_ARVADA_MTL-SQL2014			CC	heduler ARVADA_MTL-SQL2014	Stopped		3
gpsvc	Start			icy Client	Running	GPSvcGroup	
gupdate Sto Res gupdatem hidserv hkmsvc Sea		Open Services Search online		odate Service (gupdate)	Stopped		
				odate Service (gupdatem)	Stopped		
				terface Device Service	Running	LocalSyste	
				y and Certificate Management	Stopped	netsvcs	
				up Listener	Stopped	LocalSyste	
Home( Services (Local)							
Govern Scheduler ARVADA_MTL- Name		^		Description	Status	Startup Type	Log On As
SQL2014_SQL File Histo	File History Service			Protects user files from accidental loss by cop		Manual (Trigger Start)	Local System
Stop the service Function Discovery				The FDPHOST service hosts the Function Disc		Manual	Local Service
MESTATE CITE SELVICE	Google Update Service (qupdate)			Publishes this computer and resources attach Keeps your Google software up to date. If this		Manual Automatic (Delayed	Local Service Local System
	Google Update Service (gupdate)			Keeps your Google software up to date. If this  Keeps your Google software up to date. If this		Manual	Local System
Description: Runs the Govern Scheduler. It also handles the scheduling and Govern Scheduler ARVA			-SQL2014_SQL		Running	Automatic	Local System
				The service is responsible for applying setting		Automatic (Trigger S	Local System
	-	rtificate Management		Provides X.509 certificate and key manageme		Manual	Local System
messages for failed processes if				Makes local computer changes associated wit  Performs networking tasks associated with co		Manual Manual (Trigger Start)	Local System Local Service
required.	HomeGroup Provider  Human Interface Device Service			Activates and maintains the use of hot button	Running	Manual (Trigger Start)	Local System
	Hyper-V Data Exchange Service			Provides a mechanism to exchange data betw		Manual (Trigger Start)	Local System

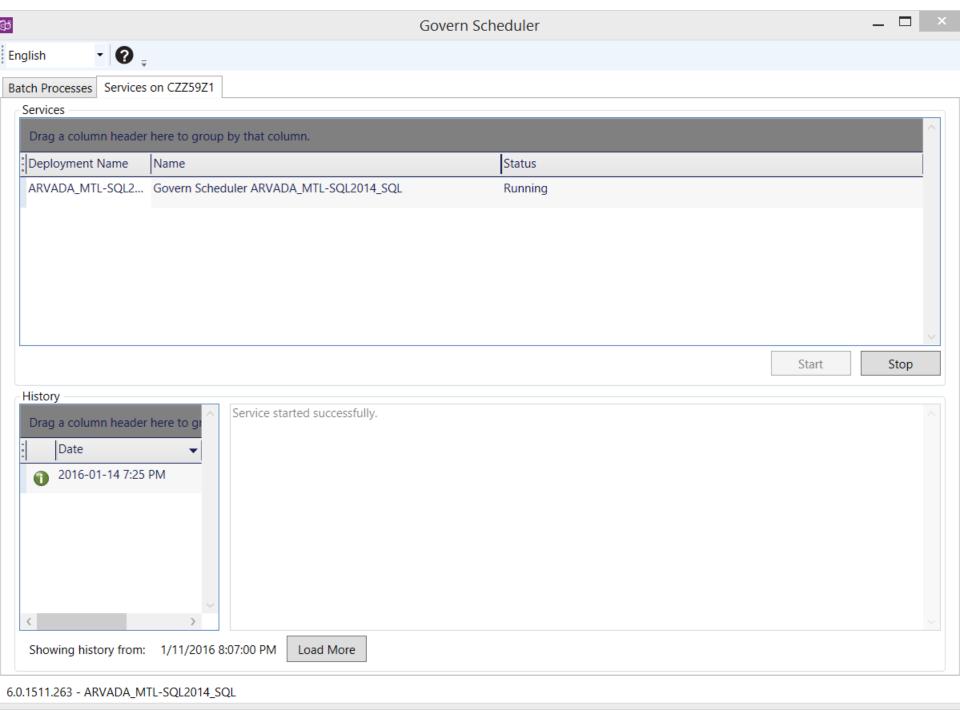
### Step 4 – SY REGISTER



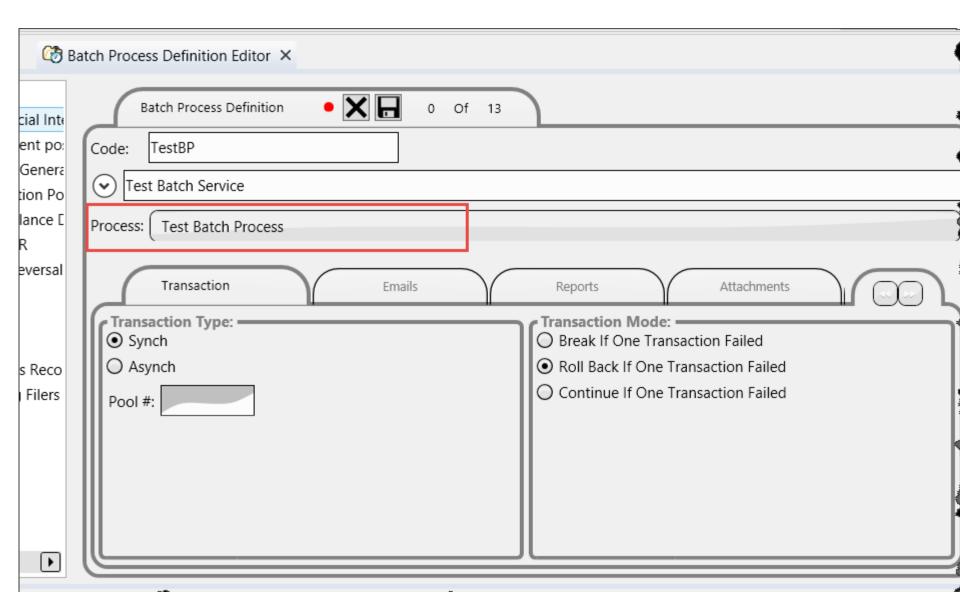
#### Install Govern Scheduler

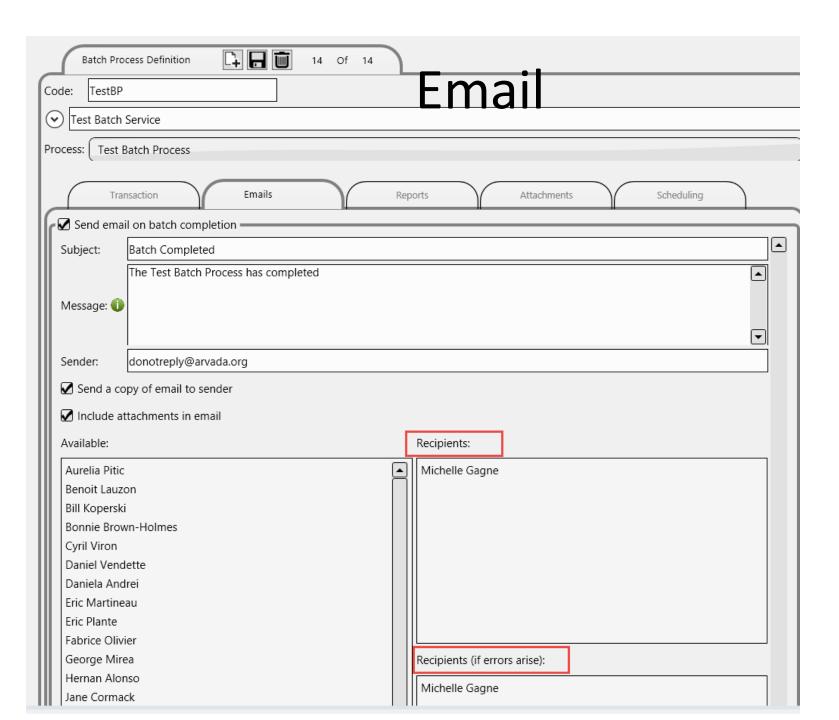




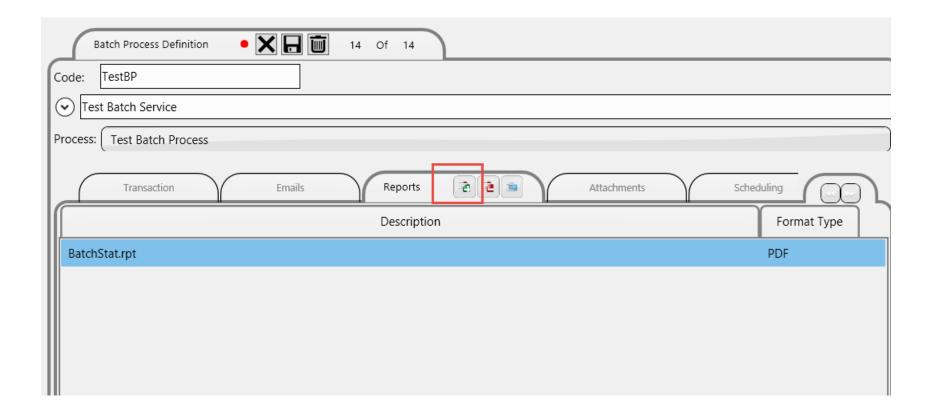


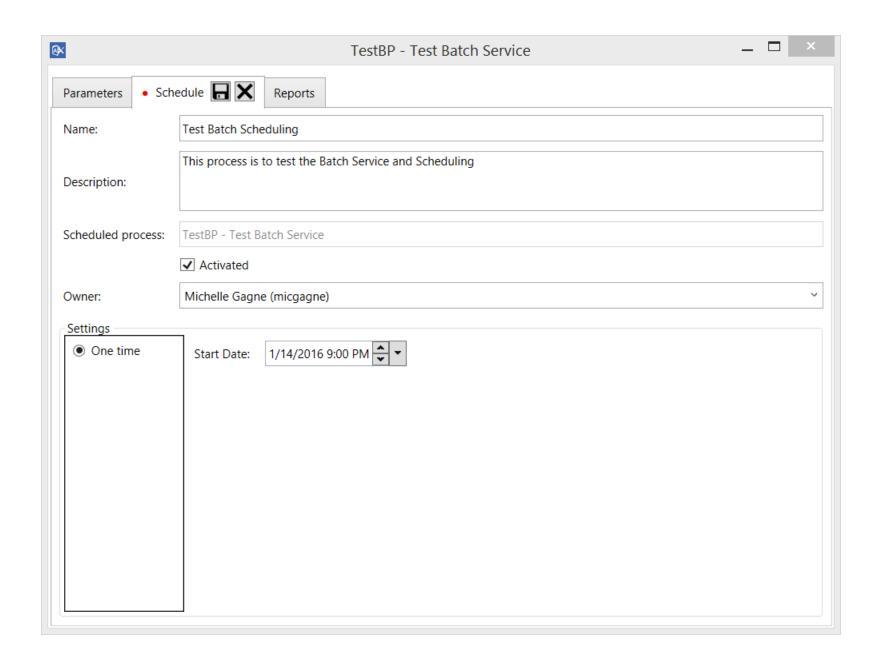
### **Testing**

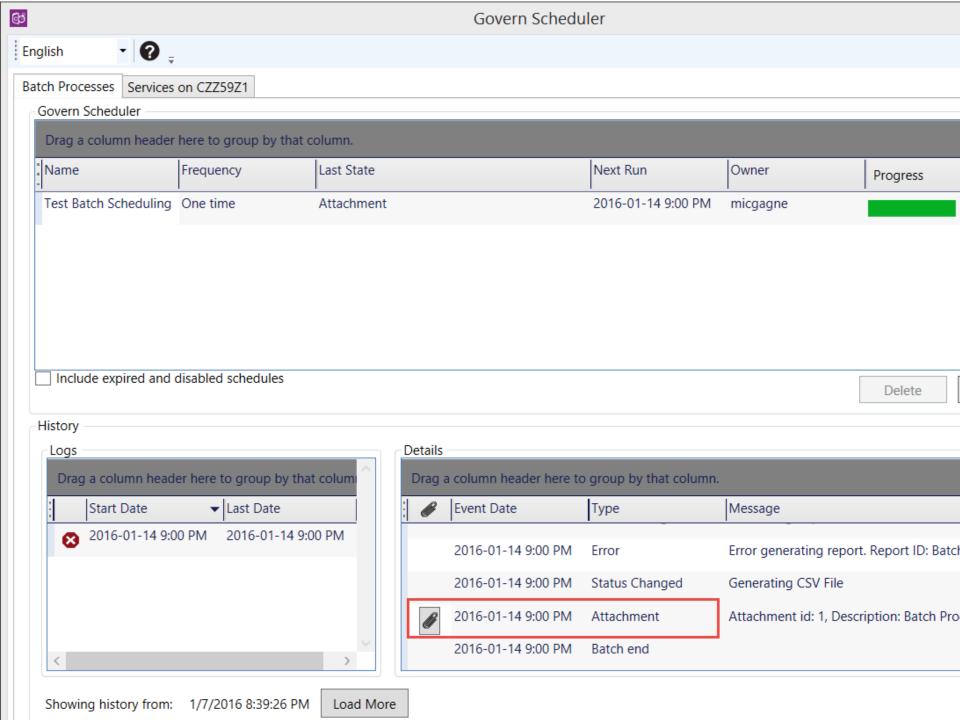


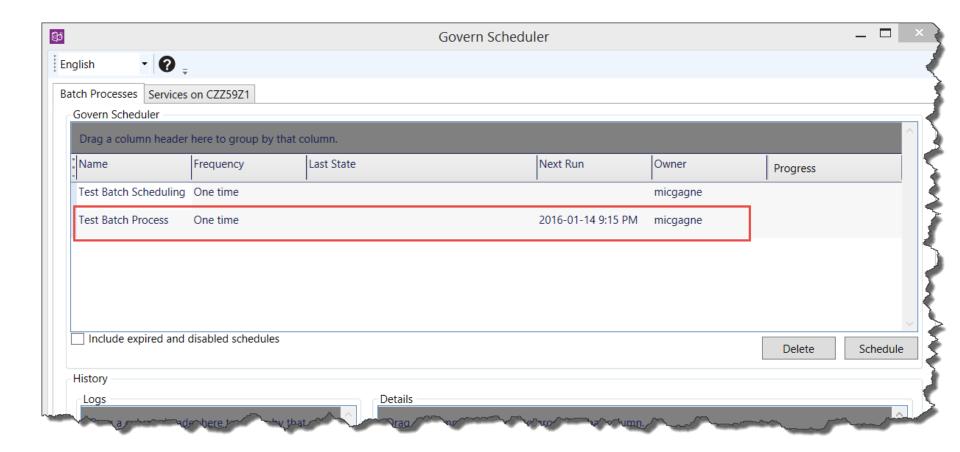


# Report

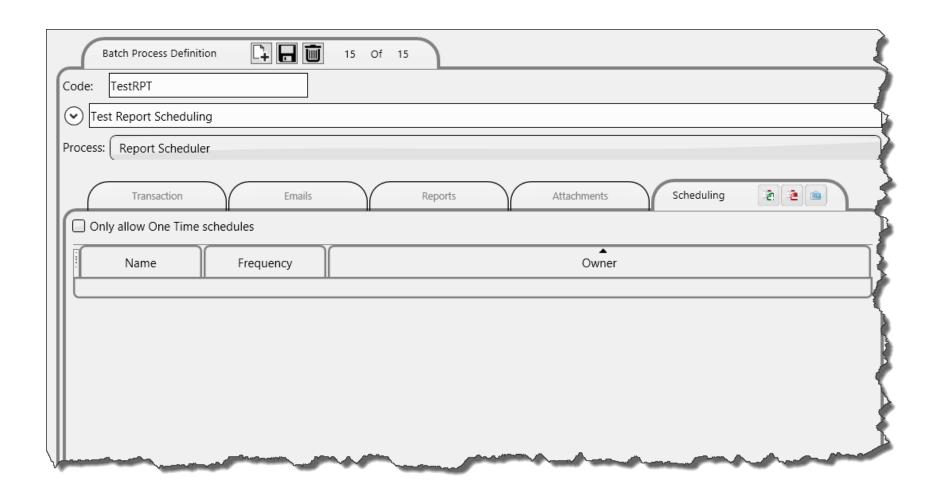




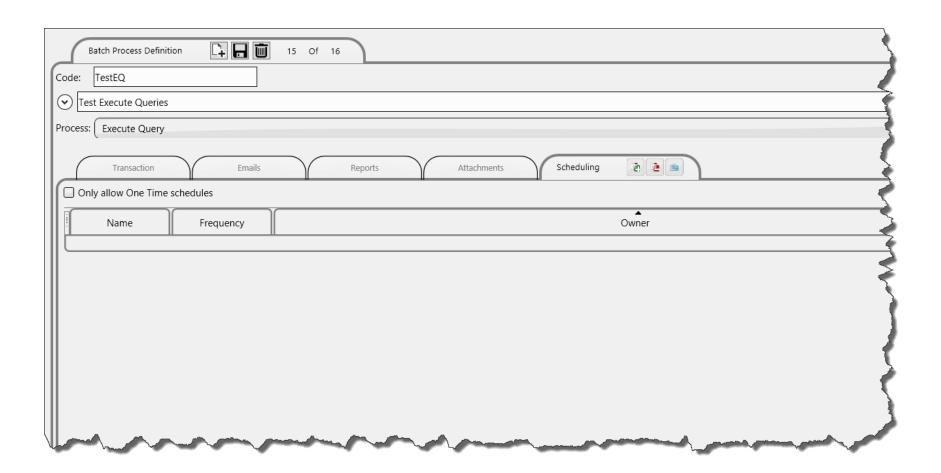




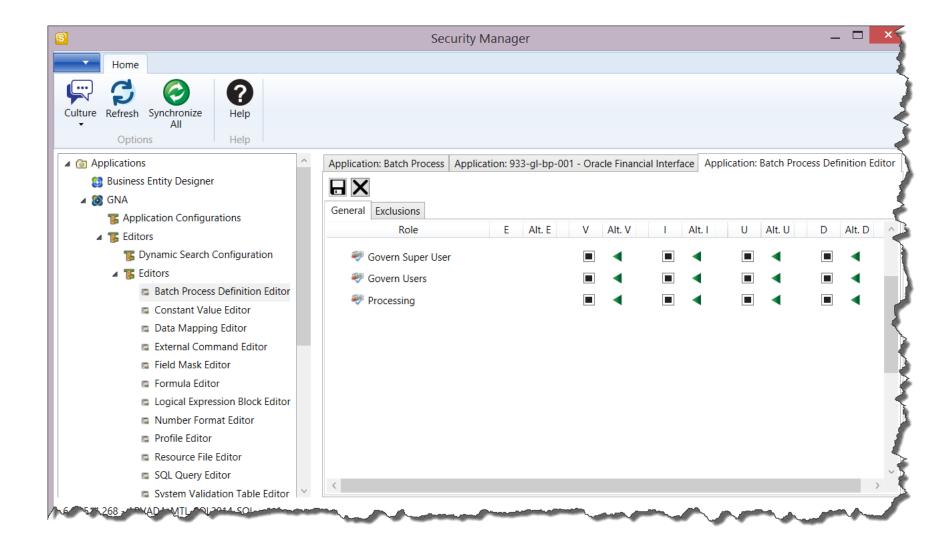
## Report Scheduler



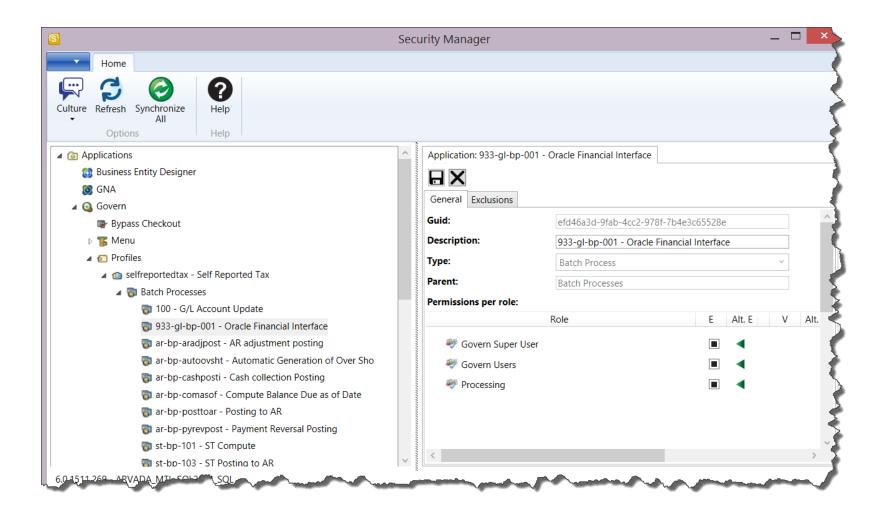
### **Execute Query**



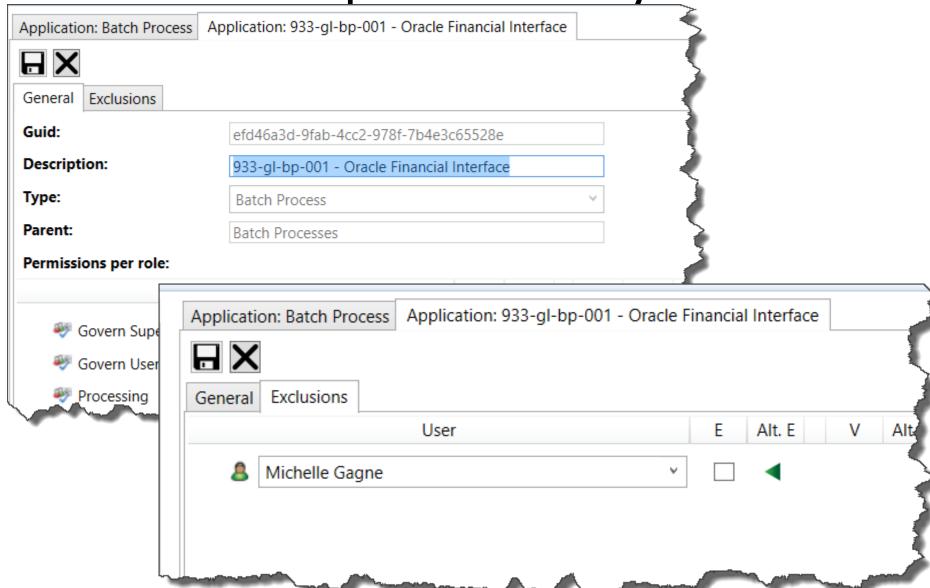
### Step 7 – Security GNA Editor



### **Profile Batch Process**



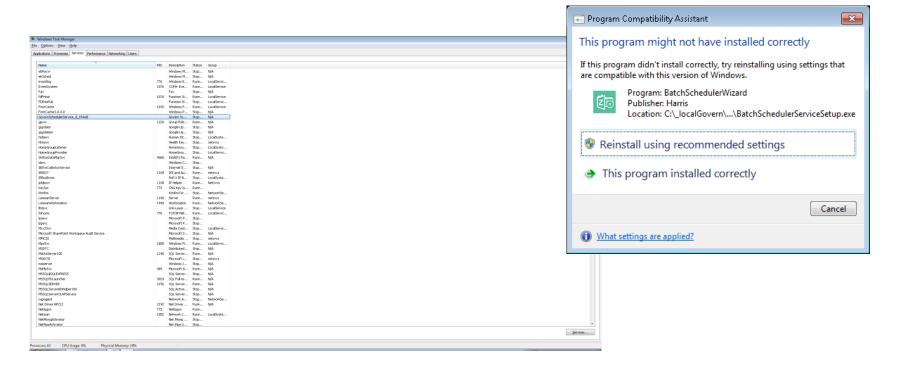
Step 7 - Security



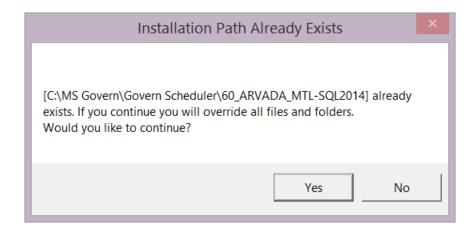
### Install problem

 After install, if you service has failed to start, you get this message.

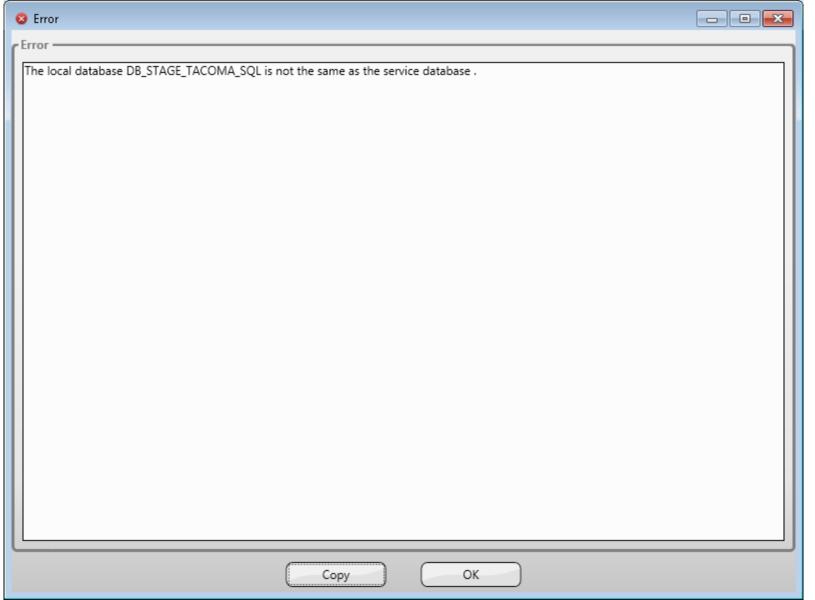
Service is installed but not started



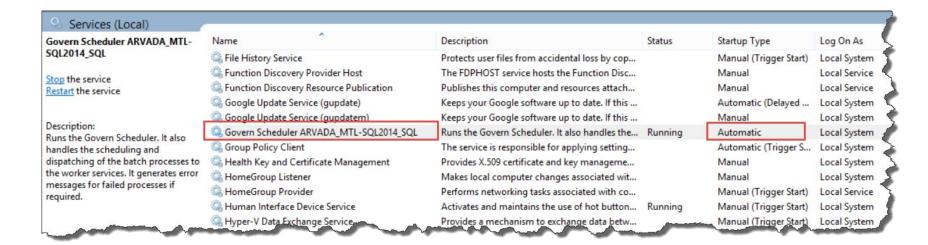
### Installation Path already exists



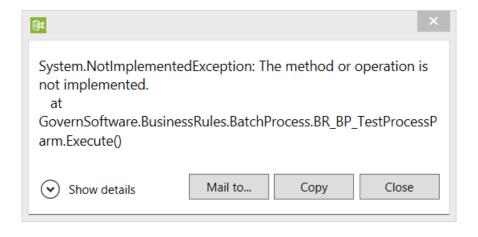
# Different Connection Key



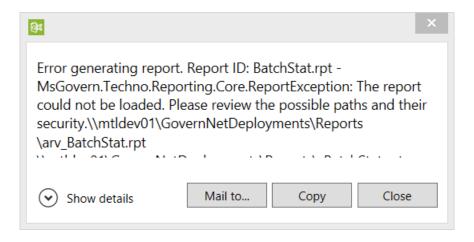
### Service Stopped



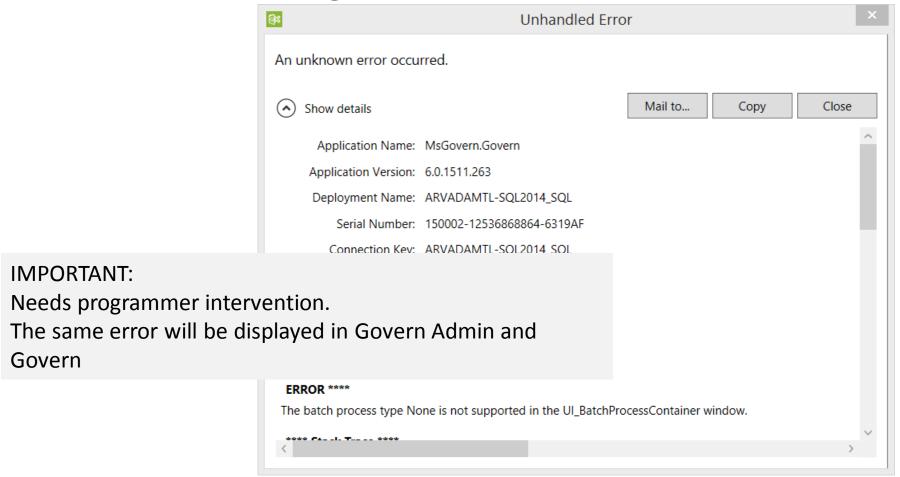
#### Method not implemented



#### Report problems



#### Older Batch Program



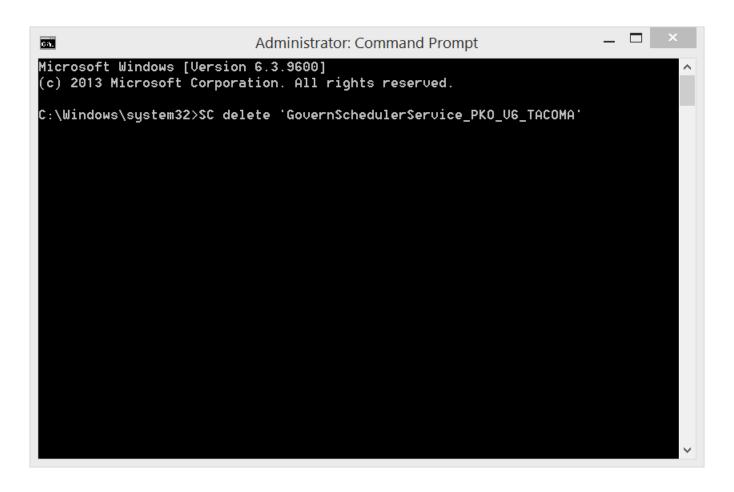
### Removing a Service

- Command Prompt as ADMIN
- Sc delete [service name]
- Service Name (Verify Services Properties)

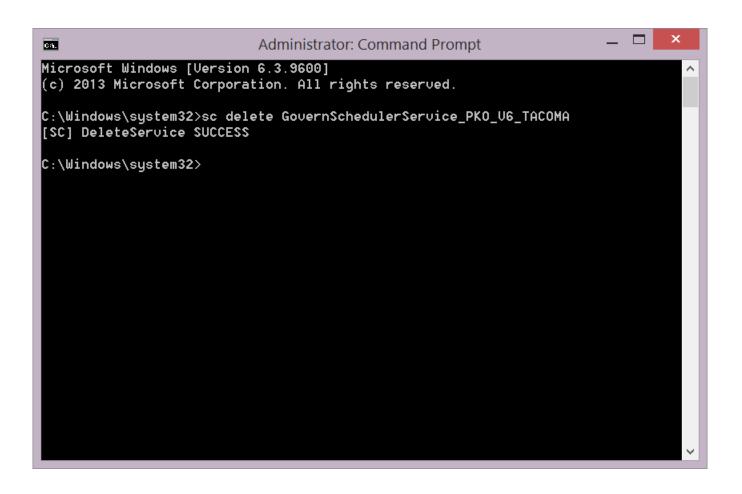
Task Manager — 🗀 🔼						
File Options View						
Processes   Performance   App history   Startup   Users   Det	tails Serv	ices				
Name	PID	Description				
© Fax		Fax				
fdPHost FDResPub		Function Discovery Provider Host				
		Function Discovery Resource Publication				
hsvc		File History Service				
FontCache	752	Windows Font Cache Service				
FontCache3.0.0.0		Windows Presentation Foundation Font Cache				
GovernSchedulerService ARVADA MTI -SOI 2014 SOI	6720	Govern Scheduler ARVADA MTI -SOI 2014 SOI				
GovernSchedulerService_PKO_V6_TACOMA		Govern Scheduler PKO_V6_TACOMA				
S gpsvc	184	Group Policy Client				
gupdate		Google Update Service (gupdate)				
gupdatem		Google Update Service (gupdatem)				
hidserv	1076	Human Interface Device Service				
hkmsvc		Health Key and Certificate Management				
AnneGroupListener		HomeGroup Listener				
A HomeGroupProvider		HomeGroup Provider				
IAStorDataMgrSvc	1192	Intel(R) Rapid Storage Technology				
IEEtwCollectorService		Internet Explorer ETW Collector Service				
igfxCUIService1.0.0.0	928	Intel(R) HD Graphics Control Panel Service				
	592	IKE and AuthIP IPsec Keying Modules				
Intel(R) Capability Licensing Service Interface	1780	Intel(R) Capability Licensing Service Interface				
Intal/D) Canability Licensina Convice TCD ID Interface		Intol/D) Canability Licensing Consider TCD ID Into				



### Run as Administrator

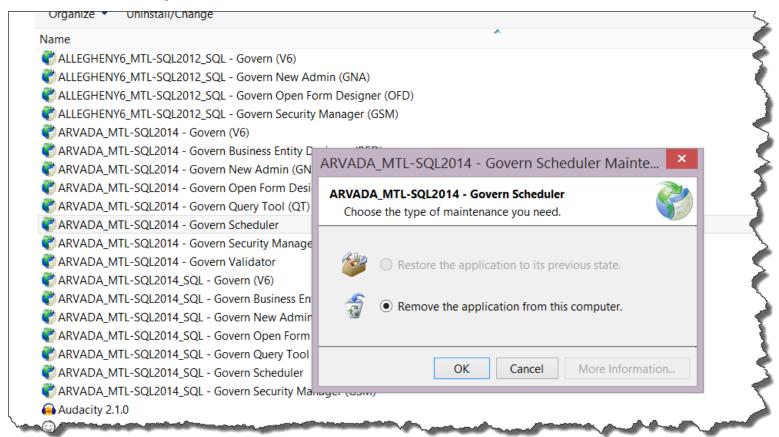


### **SUCCESS**



### Remove Apps (Control Panel)

Clean-up in Control Panel



#### SMTP for Dev

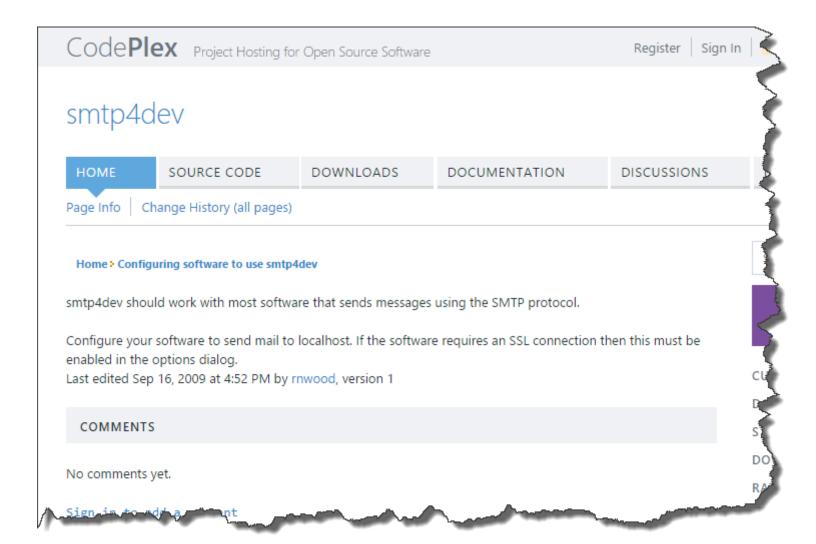
Installation and setup of SMTP4Dev 100-install-SMTP4Dev

### Installing SMTP4Dev

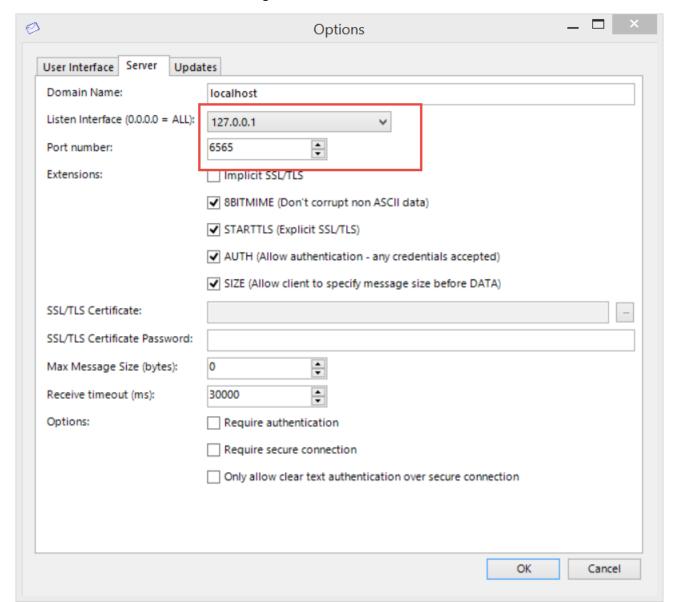
 For testing purposes, you can install SMTP4Dev, a dummy SMTP server that sits in the system tray so that the messages are not delivered via the regular server.

This Open Source Software is distributed by Code Plex.

### www.smtp4dev.codeplex.com



# Setup SMTP4Dev



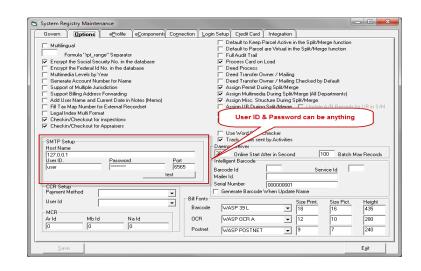
### System Registry in GNA

#### Fill in:

- SMTP Host Name
- SMTP Port

Can be set to anything:

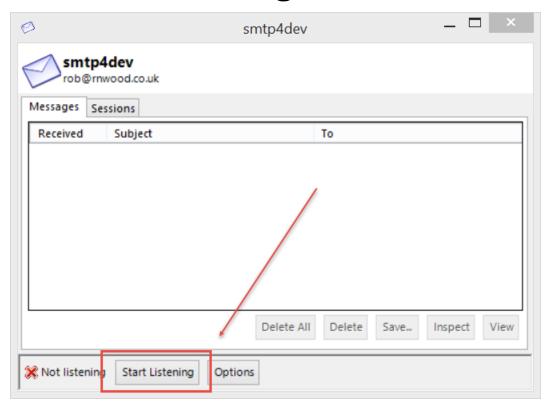
- Default Sender
- User ID and Password



System Registry Parameters Version 6.0 +
Govern Administrator (GNA) > Menu Parameters > General Settings Editor
Change Registry Filter to 'GENERAL'
Find Section Name 'SMTP'

### Starting the Process

Double check if listening



### **Email Notifications**

Click on the SMTP4dev email icon to view

notifications.

- For info ....
  - Inspect
  - View

