Notes on Connector package Dependencies

This document touches on the Auto Update packages for the connector and the dependencies that exist between the core of the connector and process execution.

From one point of view it would be best if there were no dlls shared between the connector core and the processes execution packages other than third party dlls.

The core of the connector needs to have some knowledge of how configuration for back office plugins work and if requests in general succeeded or failed. This can be accomplished by having a shared understanding of data and protocol, or by this in conjunction with sharing one or more dlls.

In order of tightest to loosest:

1. Two consumers use the Same Dlls from the same location.
   1. If a dll has a breaking change this forces a change in both consumers at the same time.
2. Two consumers use copies of the same DLL each with its own copy
   1. While the dll exists in two places, it allows the DLLs to be updated at different times and as long the data can still flow this can work.
3. No shared dlls, only shared protocol and data expectations, allows for greatest flexibility but can also lead multiple implementations.

Currently the connector has the following module dependencies:

* Connector.StateService
  + Configuration.Contracts.Data
    - ValidateCompanyConnectionCredentialResponse
    - ValidateCompanyConnectionManagmentResponse
    - CompanyManagmentCredentialsNeededResponse
    - CompanyCredentials
    - CompanyManagmentCredentials
    - CompanyConnectionCredentials
    - CompanyConnectionCredentialsResponseNeeded
    - This dependency should be removable from this dll but matching type or equivalent will need to be present. The data needs to flow.
  + DomainContracts.BackOffice
    - Type – BackOfficeCompanyConfigurationObject
      * Uses IBackOfficeCompanyConfiguration
  + DomainContracts.Responses
    - Type - Response
* Binding.DomanMediator
  + DomainContracts.backOffice
    - Type – BackOfficeCompanyConfigurationObject
      * Uses IBackOfficeCompanyConfiguration
* SageConnector – Depricated
  + Configuration.Contracts.Data
  + Configuaration.Mediator
  + DomainContracts.Responses
  + DomainMediator.Core
* SageConnect
  + Configuration.Contracts.Data
    - Types to support feature configuration
  + Configuration.Mediator
    - Types to support feature configuration.
  + DomainContracts.Reponses
    - Type – Response
    - Type to support feature configuration
  + DomainMediator.Core
    - Various JsonSerializerSettings
    - Types to support feature configuration
* ProcessExecution.RequestActivator
  + DomainContracts.BackOffice
    - Type – BackOfficeCompanyConfigurationObject
      * Uses IBackOfficeCompanyConfiguration from DomainContracts.BackOffice
  + In general as this is the start of the MAF pipeline changes here will likely cause a change in the pipeline and ProcessExecution.Addin.

Condensed:

* Configuration.Contracts.Data
* Configuration.Mediator
* DomainContracts.Reponses
* DomainMediator.Core
* DomainContracts.BackOffice
* ProcessExecution.RequestActivator – pipeline start

Changes in these dlls areas may require an update be made to both the core of the connector as well as process execution depending on the nature of the change.