CF Framework Design Notes

# Data

Persistence - ORM

Integrity - ORM

Access - Tron

Encryption - Tron

# Application

Authentication - Tron

Variables – ApplicationSettings.cfm ThisSettings.cfm

View Access - Tron

Scaffolding – Flynn

Unit Testing - Clu

## ACL

Per Method: Not dynamic – too inflexible – most secure

CFM: not dynamic but configurable – user controllable with added complexity – register like – secure

Model: dynamic – user controllable – less secure – may require redundant entries for viewACL

Merged ViewACL: dynamic – user controllable but more complex – least secure

RoleName

"Flynn" - ALWAYS RETURNS TRUE FOR ALL ACCESS REQUESTS

“Clu” returns true for all unit tests

Section = "ALL" - EVALUATES ACCESS REQUESTS EQUALLY FOR ALL SECTIONS AND VIEWS MEANING WHATEVER IS SPECIFIED UNDER ACCESS FOR THE CURRENT RECORD WILL BE APPLIED TO ALL ACCESS REQUESTS FOR ALL SECTIONS.

View = "ALL" - SAME AS ABOVE ONLY APPLIED EXCLUSIVELY TO THE VIEWS UNDER THE SECTION SPECIFIED IN CURRENT RECORD

Access = “ALL” returns true for all methods under a certain section and/or view

## Example:

Agent Dashboard under agent/dashboard includes the following method calls:

Grid A – Calls UserService.GetMethodA() – Agent allowed

Grid B – Calls UserService.GetMethodB() – Agent NOT allowed

AccessViewList:

AccessViewId = 24¸ RoleName = Agent, Section = agent, View = ALL, securityClearance = 0

AccessMethodList:

AccessMethodId = 1, methodname = GetMethodA, className = \_userservice, securityClearance = 3

AccessMethodId = 2, methodname = GetMethodB, className = \_userservice, securityClearance = 3

AccessControlList:

AccessViewId = 24, AccessMethodId = 1, Allowed = true

Test condition 1: AccessViewList.SecurityClearance GTE AccessMethodList.SecurityClearance

Test condition 2: AccessControlList.RecordCount AND AccessControlList.Allowed