Developer Guide (MF PS Only)

# **Introduction**

1. This toolkit comprises of a single program and some configuration files in json format
2. The programming language used in this toolkit is [Dart](https://dart.dev/).
3. The program should be compiled to native executables (exe/bin) to be used in a customer environment.
4. Do not modify the master copy of the program for any customer requirements. Branch or fork this github and then modify the copy.
5. Master copy should only be modified for improvements or with bug fixes.
6. The toolkit can be accessed from here <https://github.houston.softwaregrp.net/harsha-s5/SNOWtoSMAXMigration>

# **Flow of the program.**

1. main function is loaded first
2. main function then loads the required snow and smax classes
3. The function initiateSNOWtoSMAX loads the snow and smax json files and calls the correct migration function using the switch statement

# **Functions available as of now**

***Following section lists out all the functions which actually does the mapping of fields between SNOW and SMAX***

**Mapping:** Incident to Incident

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_IM*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| RegisteredForActualService | cmdb\_ci |
| DisplayLabel | short\_description |
| Description | description |
| Urgency | urgency |

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_IM*** |
| ImpactScope | impact |

**Mapping:** User to Person

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_Person*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| FirstName | firstName |
| LastName | lastName |
| Email | email |
| Upn | userName |
| IsMaasUser | Calculated By script |
| Manager | manager |
| AuthenticationType | Calculated By script |
| roles | roles |

**Mapping:** Group to Group

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_PersonGroup*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| GroupType | Set to “Organizational” by default |
| Name | lastName |
| Upn | email |

**Mapping:** Location to Location

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_Location*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_Location*** |
| LocationType | Calculated by using values in the following SNOW Fields. Street, City, Country |
| Name | lastName |
| ParentLocation | email |

**Mapping:** Problem to Problem

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_PM*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| AffectsActualService | cmdb\_ci |
| DisplayLabel | short\_description |
| Symptoms | description |
| Urgency | urgency |
| ImpactScope | impact |
| Category | category |

**Mapping:** Company to Company

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_Company*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| DisplayLabel | name |
| Code | stock\_symbol |
| CompanyType | Calculated by the script |
| Website | website |
| Phone | phone |
| Fax | fax\_phone |

**Mapping:** Article to Article

|  |  |
| --- | --- |
| **Function Name** | ***snowToSMAXExecute\_Article*** |
| ***Field Mapping*** |  |
| **SMAX Field** | **SNOW Field** |
| Title | short\_description |
| Content | text |
| Category | categoryCode |

***Following section lists out all the functions which do not perform any mapping. They are the supporting functions to the main functions listed above***

|  |  |  |  |
| --- | --- | --- | --- |
| **Function Name** | **Description** | **Parameter** | **Return** |
| setSMAXAuth | Function to get smax auth tokern | N/A | Auth token |
| initiateSNOWtoSMAX | Function to initiates the execution. | This reads the smax and json filees smax entity name snow entity name | N/A |
| getManagerEmail | To get manager email from SNOW Manager | link value in SNOW | Manager email |
| sendToSMAX | Sends the payload to smax | 1. payload 2. rest api type | N/A |
| getSMAXImpact | Get SMAX value for Impact from JSON mapping | Snow Impact value | SMAX  Impact Value |
| getSMAXUrgency | Get SMAX value for Urgency from JSON mapping | Snow Urgency value | SMAX  Urgency Value |
| getSMAXLocationType | Get SMAX value for Location Type from JSON mapping | Snow Location value | SMAX  Location Type |
| getSMAXService | To get smax code for Service | SNOW Service Name SMAX Auth token | SMAX  service Code |
| getSMAXCategory | To get smax code for Category | SNOW Category Name SMAX Auth token | SMAX  Category Code |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function Name** | **Description** | **Parameter** | **Return** |
| getSNOWServiceName | To get SNOW Name for Service | SNOW Service Code | SNOW  service Name |
| getSNOWLocationName | To get SNOW Name for Location | SNOW Location Code | SNOW  Location Name |

**Best Practices for developing**

1. Use the same coding structure.
2. If the modifications done are generic and can be applied to OOB scenarios then apply the changes to Master
3. Try to re-use the existing supporting functions
4. Update the wiki with new function details.