# Class

<< In section 4.X, parent class is defined. In section 4.X.X, class fields and methods which belong to 4.X parent class is defined>>

This section contains class diagram and list of the function for <MSN> Generation Tool.

**Crosscut Concern**

MainEntry

ICommandline

IValidation

IParser

IIntermediate

IFileGeneration

ObjectFactory

Commandline

BaseValidation

ParserXML

BaseIntermedia

FileGeneration

HeaderFileGeneration

SourceFileGeneration

<Msn><VARIANT>CfgFileGeneration

<Msn><VARIANT>Intermediate

<Msn><VARIANT>Validate

IBasicConfigurationLoader

BasicConfigurationLoader

IBasicConfiguration

BasicConfiguration

IRuntimeConfiguration

RuntimeConfiguration

IIntermediateData

IntermediateData

DebugLogger

UserInterface

Util

ILogger

IUserInterface

StringUtils

Constant

IRepository

RepositoryLinQ

Use, Has

Generic part

Specific part

<Msn><VARIANT> <SUB\_VARIANT>Validate

<Msn><VARIANT><SUB\_VARIANT>Intermediate

Generation

IGeneration

Interitance, implementation

**Crosscut Concern**: the common classes can be used by all all remaining classes.

<Msn><VARIANT>PBcfgFileGeneration

<Msn><VARIANT>Configuration

Note: All methods with type “Protected” are represented by “protected virtual” in source code and can be overrided by subclasses.

Figure . Overview of class diagram