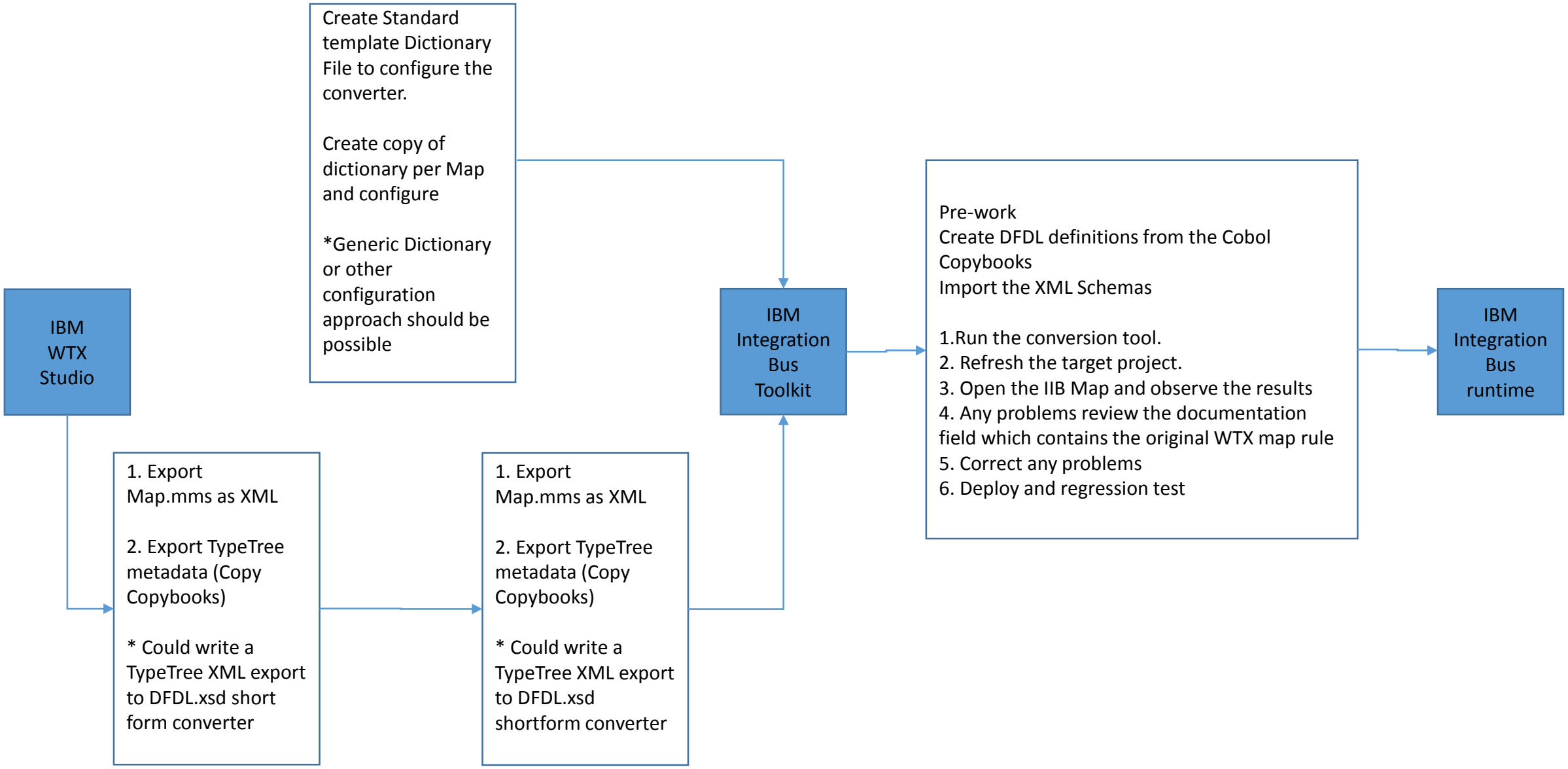

Create Standard template Dictionary File to configure the converter.
Create copy of dictionary per Map and configure
*Generic Dictionary or other configuration approach should be possible
IBM WTX Studio
1. Export Map.mms as XML
2. Export TypeTree metadata (Copy Copybooks)
* Could write a TypeTree XML export to DFDL.xsd short form converter
1. Export Map.mms as XML
2. Export TypeTree metadata (Copy Copybooks)
* Could write a TypeTree XML export to DFDL.xsd shortform converter
IBM Integration Bus Toolkit
Pre-work
Create DFDL definitions from the Cobol Copybooks
Import the XML Schemas
1.Run the conversion tool.
2. Refresh the target project.
3. Open the IIB Map and observe the results
4. Any problems review the documentation field which contains the original WTX map rule
5. Correct any problems
6. Deploy and regression test
IBM Integration Bus runtime

WTX to IBM GDM Generator

DFDL Standalone to build dictionary object from CSVs

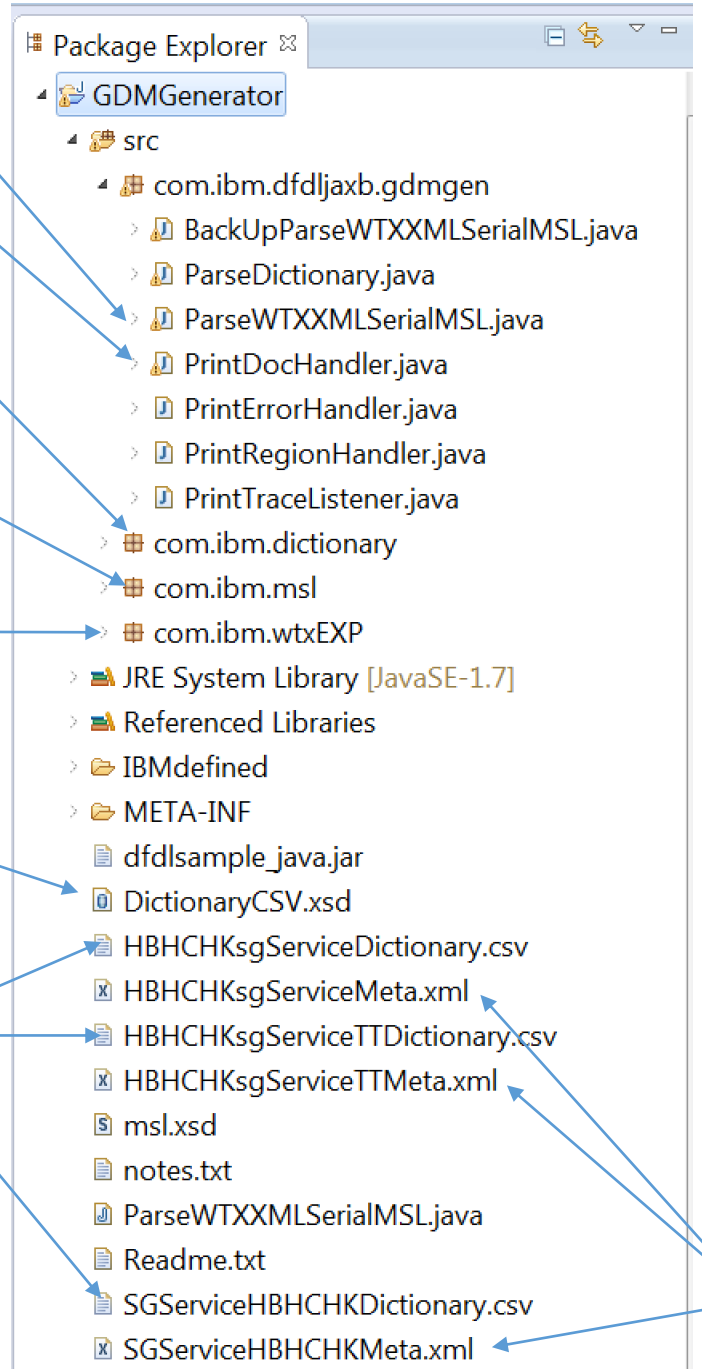
Generated JaxB classes for the dictionary based on the DFDL schema for the dictionary CSV dictionary.xsd

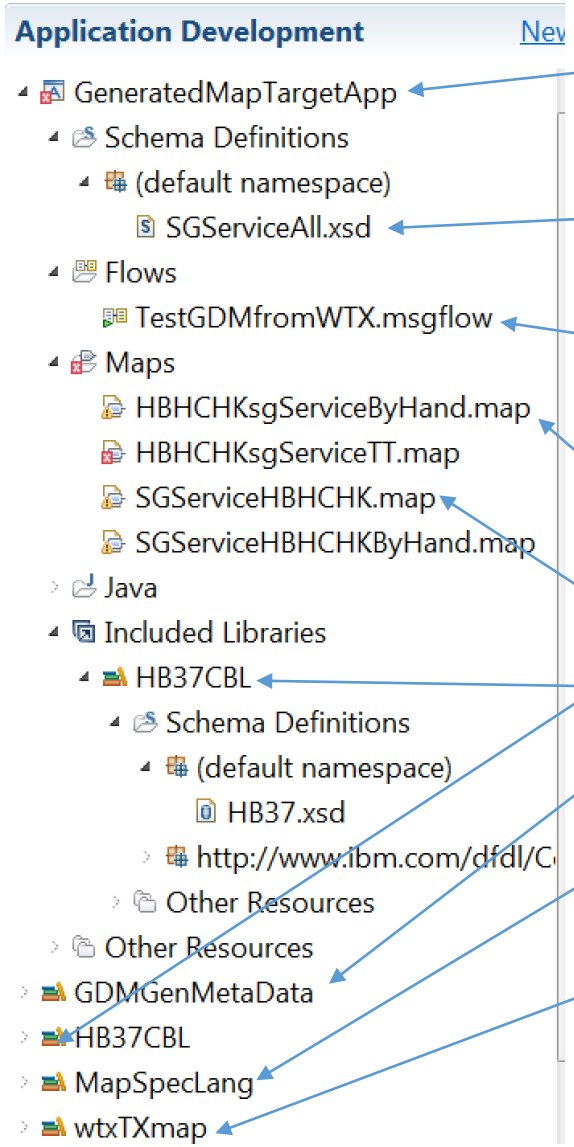
Generated JaxB classes for the IIB GDM published schema Msd.xsd

Generated JaxB classes for the WTX mms.xsd based on the mms.dtd from WTX that describes the WTX Map export XML

Copy of the DictionaryCSV.xsd from the GDMGenMetaData DFDL library used to build the dictionary

Dictionaries for three WTX to IIB GDM Map conversions





WTX XML Exports for three WTX Maps

IIB Application – Target for the project for the WTX to GDM converter

XML Schemas exported from WTx Studio can go here or in a library that is referenced

IIB Message Flow for testing the generated GDM maps

ByHand – GDM Maps created manually for comparison with generated maps (COBOL to XML)

Generated maps (XML to COBOL)

Example DFDL library based on COBOL copybook from WTX studio

DFDL Library for the Dictionary

Library for GDM Map Specification Language MSL.xsd schema

Library for WTX XML export schema based on mms.dtd (and associated dtds)

Arguments:
1. Target IIB Project for Maps
2. MapName

Example
1. ../GeneratedMapTargetApp/
2. SGServiceHBHCHK

ParseWTXXMLSerialMSL

1. Create a ParserDictionary
2. Unmarshall the WTX XML export to JaxB Objects based on the mms.xsd (generated from the mms.dtd)
3. Create the basic GDM Map construct XML using the JaxB Objects based on the Map Specification Language MSL.xsd
4. Create the GDM properties mapping
5. Loop through each of the WTX XML Export Map rules
    i. Identify the WTX function for each rule
    ii. Match WTX function to a GDM equivalent (use a basic Move for field association as a default)
    iii. Call the appropriate Build GDM function class
    iv. Supports:
        a. WTX =Field as a GDM Move
        b. WTX =0 or ="text" as a GDM Assign
        c. WTX =NUMBERTOTEXT/TEXTTONUMBER as GDM Convert
        d. All other functions are a GDM Move
            Original WTX function copied to GDM document
        e. Placeholder for Custom Java functions
    v. Call the appropriate refactor classes
        a. refactorTxXML
            Switch a WTX XML path syntax to a GDM
        b. refactorTxFix
            Switch a WTX FixedFormat path syntax to a GDM

1. Marshall the GDM Map Specification Language JaxB Objects as an XML File

DictionaryCSV.xsd the metadata for the DFDL parser to

MapName+dictionary*.csv Dictionary files for three WTX to IIB GDM Map conversions

ParserDictionary

Use DFDL parser to read MapDictionary.csv file and load Dictionary JaxB Java Objects

Deliver a LookUp method such that ParseWTXXMLSerialMSL can obtain:

1. Metadata that is not in the WTX XML export file
2. Substitutions where WTX studio has changed the names of fields in COBOL
3. Placeholder for Mapping WTX functions to IIB Functions