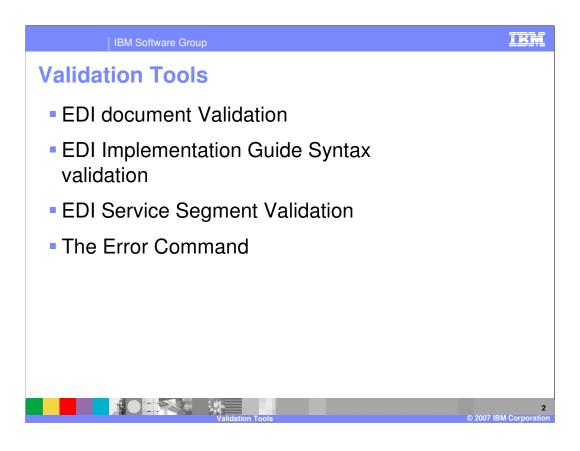
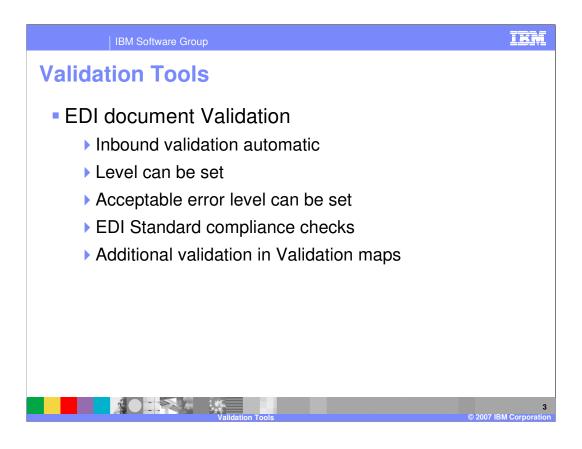


This presentation will review the validation tools that can be used in a Data Transformation map.

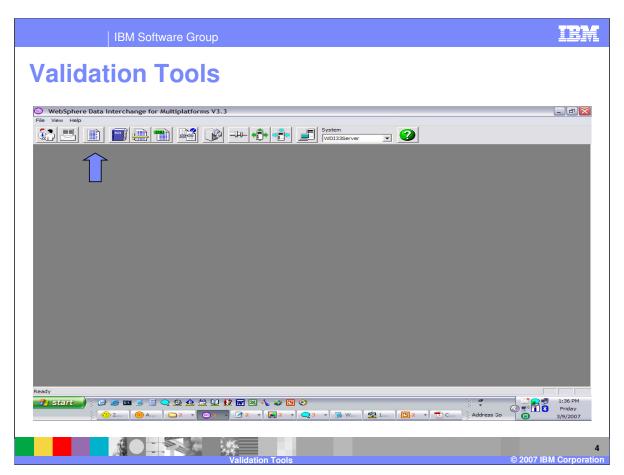


The presentation will review tools available for Electronic Data Interchange (EDI) standard document validation, implementation guide syntax validation, and EDI service segment validation. The Error mapping command will also be reviewed.

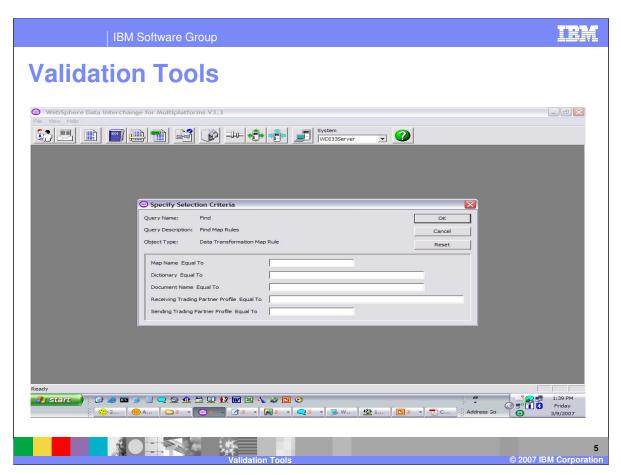


WebSphere Data Interchange (WDI) will automatically validate inbound and outbound EDI documents that are to be translated for Data Transformation (DT) mapping. The level of validation that will be performed is specified in the Data Transformation Map Rule associated with the map. EDI Standard Transaction documents will be validated to ensure they comply with the corresponding EDI Standard. If you need additional validation beyond what is specified in the corresponding EDI Standard, a Validation Map can be used.

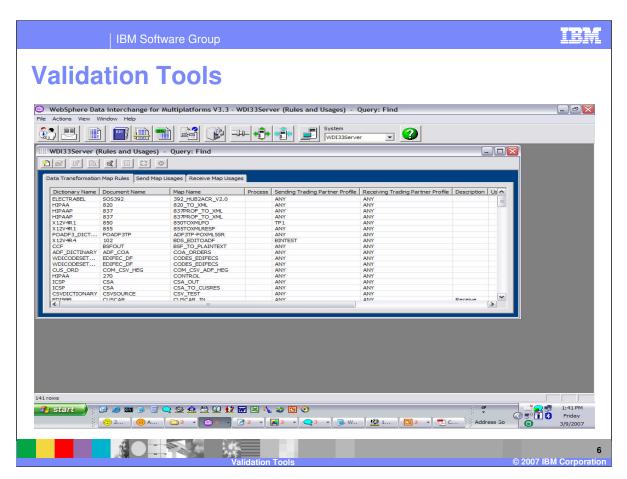
Validation Maps provide the instructions needed to perform additional validation beyond what is specified in the EDI Standard. Validation maps can only be used with the Data Transformation map processing.



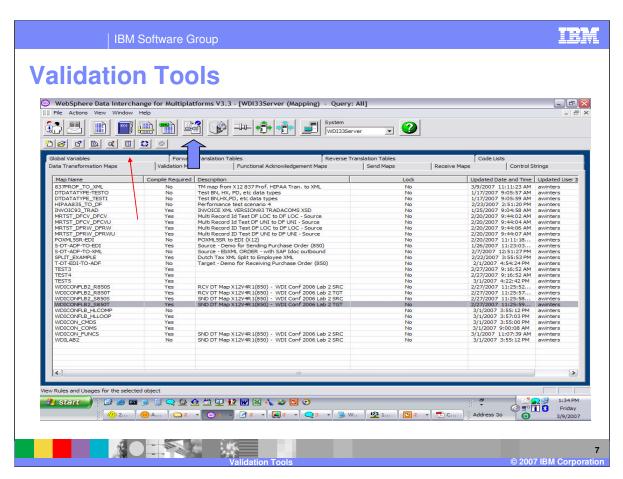
You can view data transformation rules, send, and receive usages in the Rules and Usages functional area.



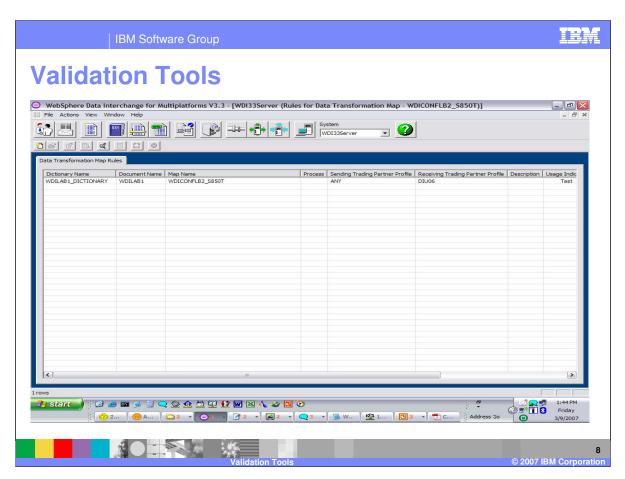
Selection criteria can be entered to view a specific set of rules or usages.



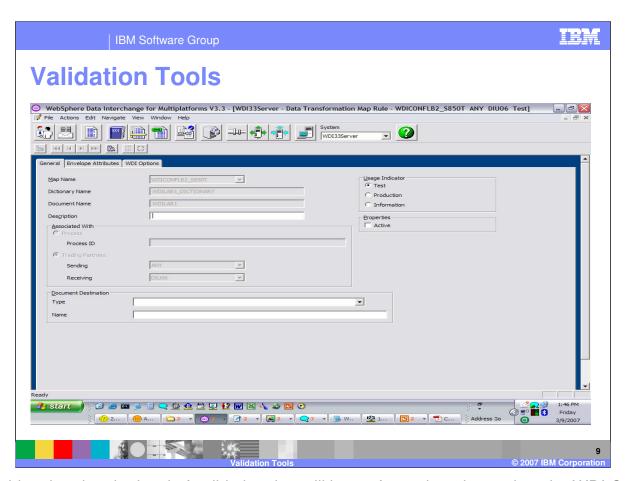
There are 3 tabs to view Data transformation Rules, Send Usages, or Receive Usages. The Rules and Usages can be updated from this functional area.



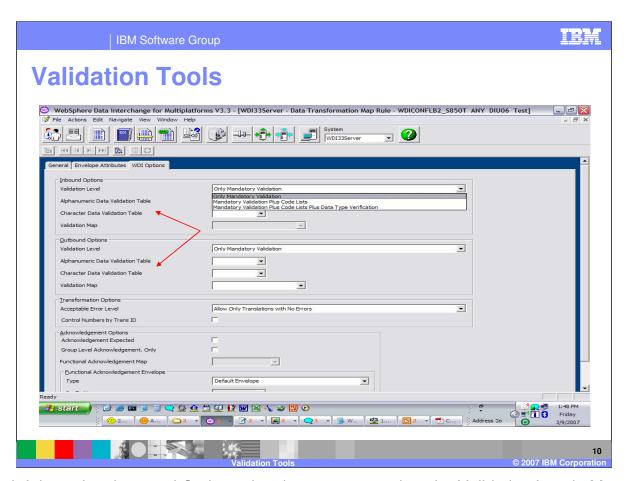
You can also go into the Mapping Functional Area, highlight the map and select the Rules and Usages button to see the Rules for a particular map.



To update or view the Data Transformation Rule, double click the Rule.

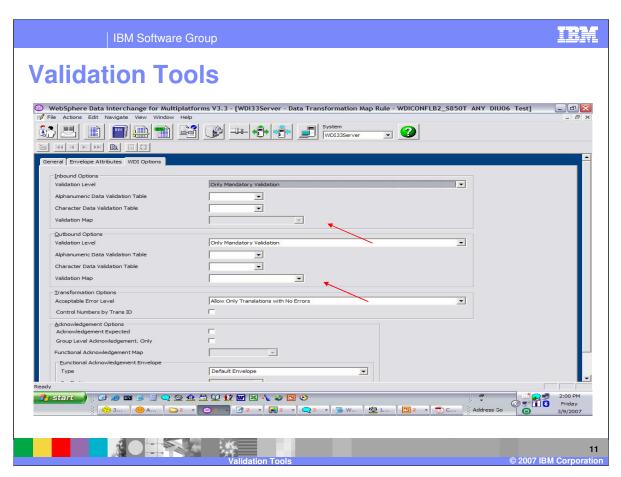


The fields related to the level of validation that will be performed are located on the WDI Options tab.

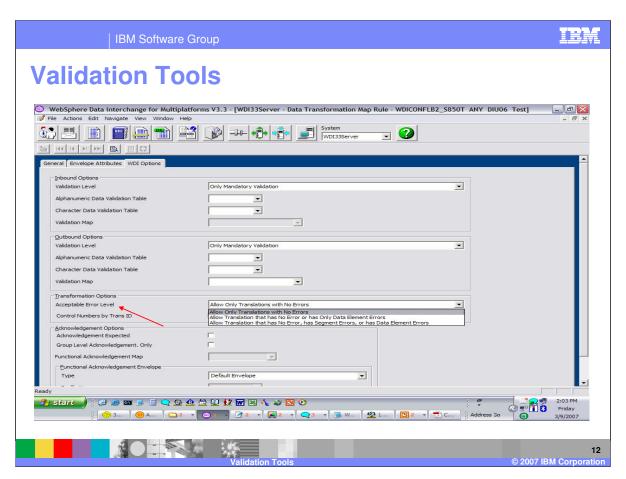


For both Inbound options and Outbound options you can select the Validation Level. Mandatory Validation will perform the basic EDI Standard Syntax checking. Mandatory plus Code List will perform the basic EDI Syntax checking and validate the values in the EDI message against elements in the EDI document definition that contain a code list. Mandatory plus Code List plus data type verification will additionally validate the values in the EDI message against the data type defined in the EDI document definition.

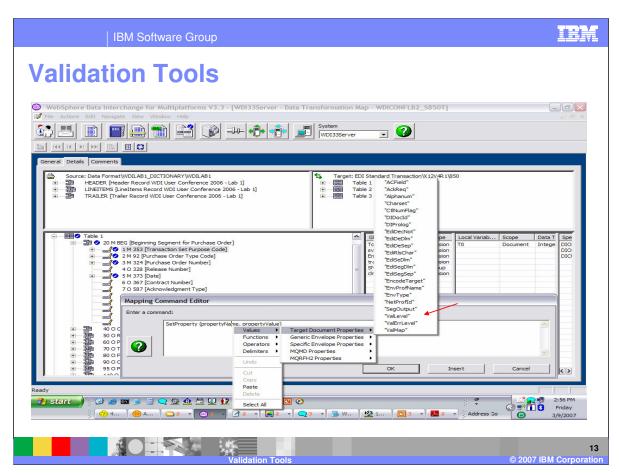
For example, elements with data type Alphanumeric will be checked to ensure all the characters in the value are in the ALPHANUM code list. This code list is the default code list used for Alphanumeric data type checking. You can also create your own Alphanumeric and Character code list and specify them here for this particular Rule or in the Application Defaults profile for your WDI system.



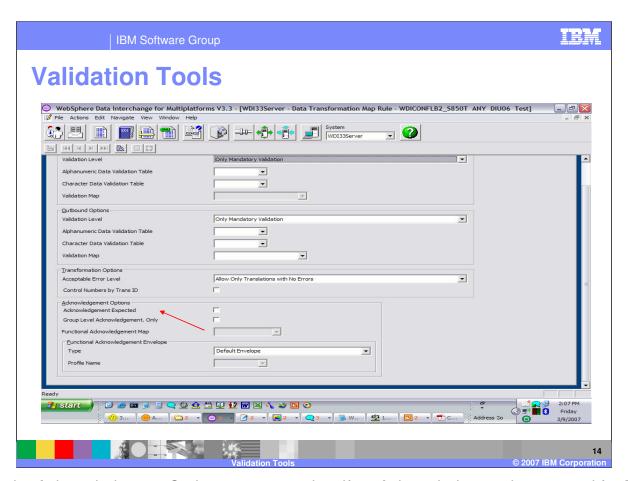
For both Inbound options and Outbound options you can select a Validation map to execute if you need additional validation beyond what is specified in the corresponding EDI Standard, a Validation Map can be used. With this example the Source or Inbound document is not EDI and the Validation map cannot be selected. The Target or Outbound document is EDI and a Validation map can be specified.



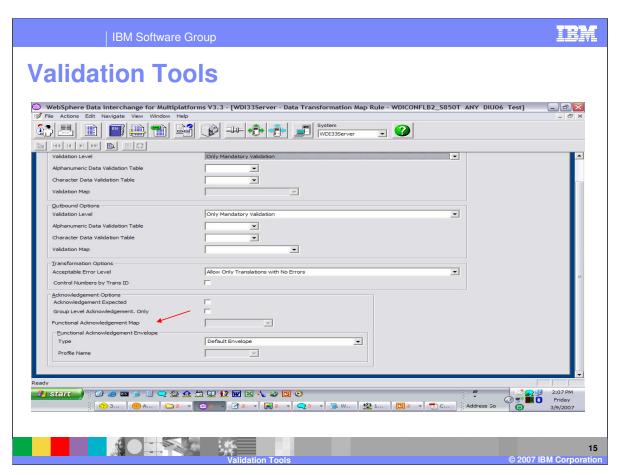
Under the Transformation Options you can select the Acceptable Error Level. You can Allow Translations with no errors, with data element level errors, or with segment or data element errors. For example, a missing mandatory segment will allow the translation to complete with an acceptable error level that allows segment level errors. A message will be issued as a warning.



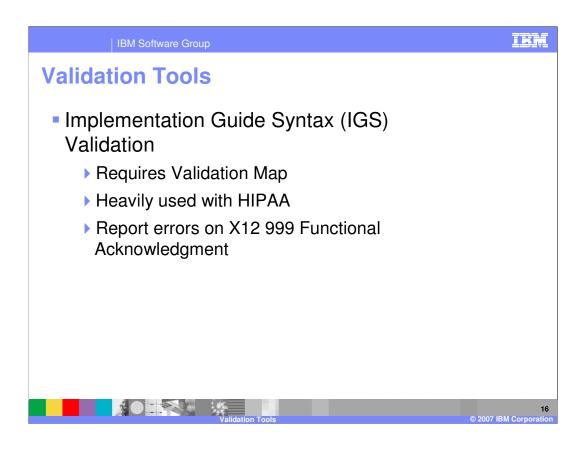
There are also Target Document Properties that can be used the to set the Outbound or EDI Target document Validation Level, Acceptable Error Level, and Validation Map. These are available with the SetProperty Command.



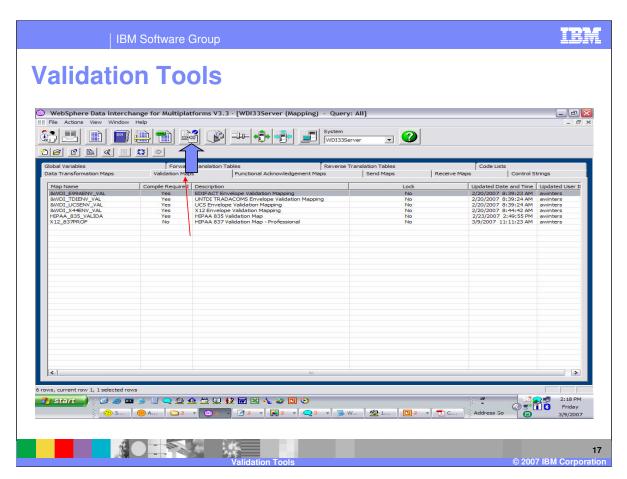
Under the Acknowledgment Options you can select if an Acknowledgment is expected for EDI Target or outbound messages. When your trading partner sends you the functional acknowledgment this flag will be used to reconcile the acknowledgment with the original EDI outbound message. The WDI Document Store must be active the reconciliation.



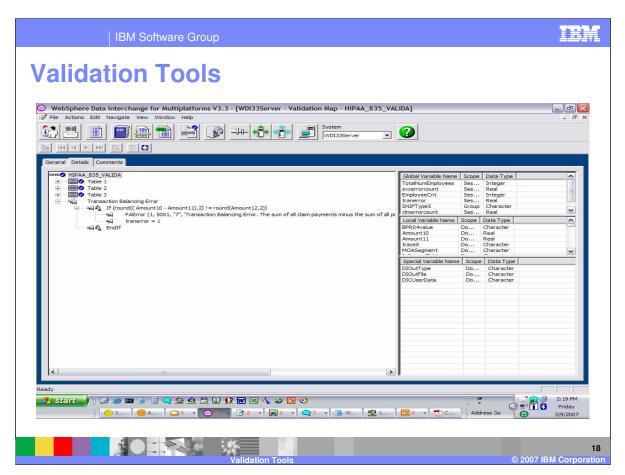
For EDI Source or inbound messages you can specify a Functional Acknowledgment Map along with an Envelope profile. WDI will automatically generate the Functional Acknowledgment during the EDI Source document processing.



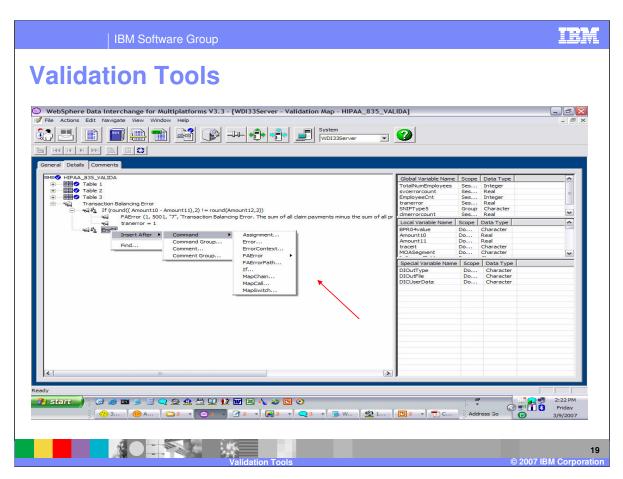
Validation maps are heavily used with HIPAA implementations. HIPAA document processing requires additional validation on EDI documents that is not defined within the standard definition. Validation Maps provide the instructions needed to perform additional validation beyond what is specified in the EDI Standard.



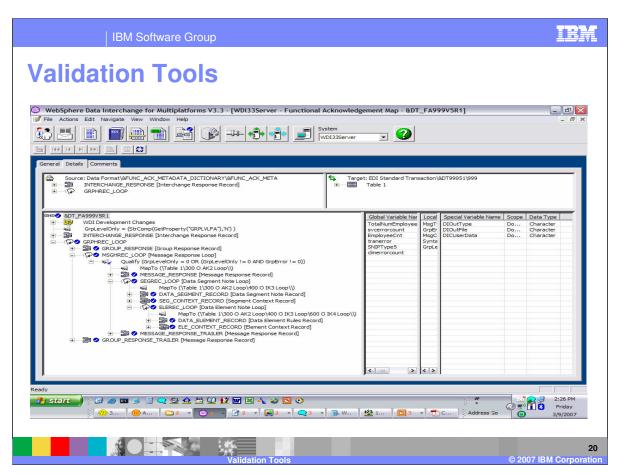
Validation Maps are located in the Mapping Functional Area on the Validation Maps tab.



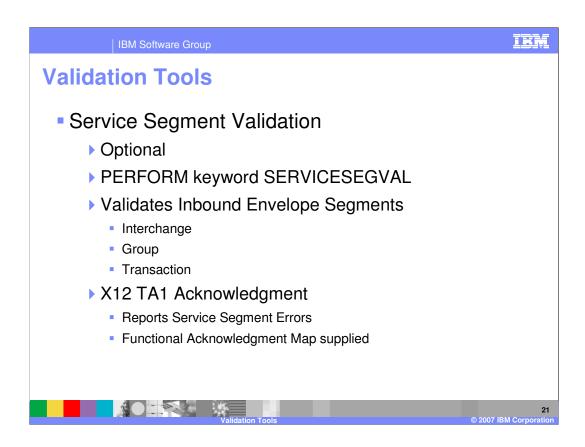
There is a Source document but no Target document because Validation maps are only used to validate and do not produce output. Most mapping commands and functions for Data Transformation mapping are available.



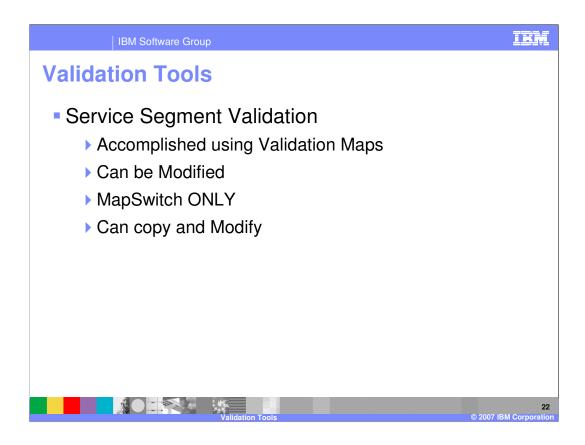
Functional Acknowledgment errors may be issued with the FAError or FAErrorPath commands. The ErrorContext Command is used to report the Implementation Guide Syntax Error.



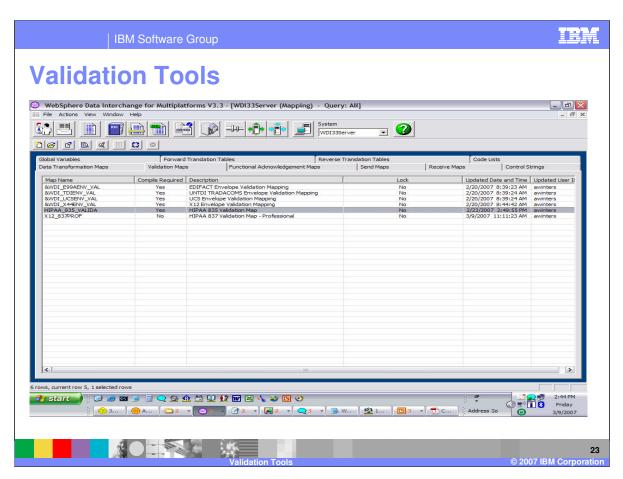
Both the WDI EDI Syntax validation and the results of the FAError commands in a validation map will produce a Source Message to be processed using a Functional Acknowledgment Map. This is the layout of the Source Message generated during Validation.



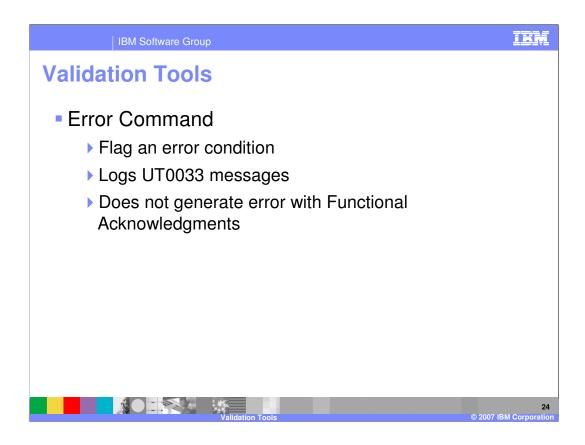
Service Segment validation is optional. This level of validation is for the inbound or source EDI Envelope Segments. To request this level of validation the PERFORM command keyword SERVICESEGVAL must be specified. A value of 1 indicates mandatory and minimum maximum length checking for the Envelope elements. A value of 2 indicates the value should also be validated using a code list. The X12 TA1 reports Service Segment Errors.



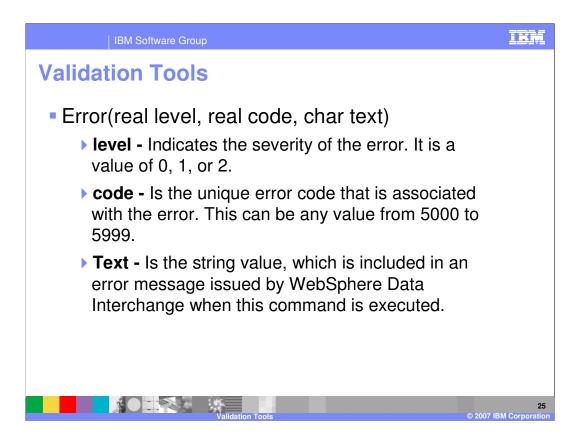
Service Segment validation is accomplished using WDI Validation Maps. Although these maps may be modified it is recommended that you copy the maps that are supplied and do a MapSwitch from the maps supplied to your modified version. The names of these validation maps cannot be changed which requires that you add the MapSwitch command to execute your version.



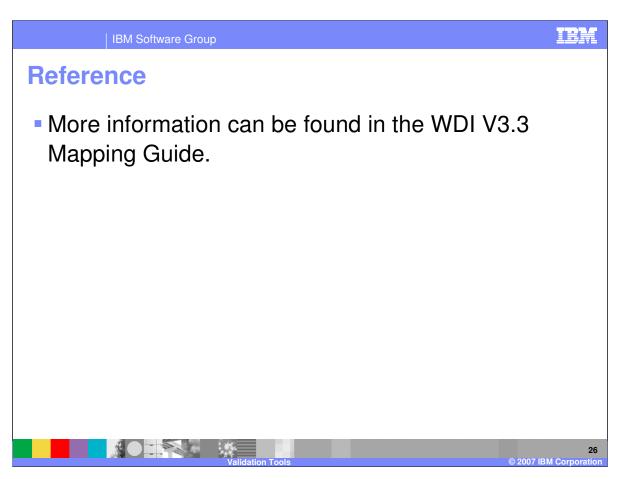
There are 4 Service Segment Validation maps supplied. One for each envelope type supported.



Use the **Error** command to issue an error condition. This command enables you to establish your own errors for a translation. Typically, the error is issued from within an If conditional block. This command generates UT0033 messages. It cannot be used to issue an error in a functional acknowledgment message.



This is the syntax of the Error Command. **Level i**ndicates the severity of the error. It is a value of 0, 1, or 2. **Code i**s the unique error code that is associated with the error. This can be any value from 5000 to 5999. **Text i**s the string value, which is included in an error message issued by WebSphere Data Interchange when this command is executed.



More information can be found in the WebSphere Data Interchange Version 3.3 Mapping Guide.



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