

Web Service: SBMLmod

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Target Namespace: <http://sbmlmod.uit.no:8080/sbmlmod>

Port *SBMLmod*SOAP [Port type](#) [Source code](#)

Location: <http://sbmlmod.uit.no:8080/sbmlmod>

Protocol: SOAP

Default style: document

Transport protocol: SOAP over HTTP

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Operations

Port type *SBMLmod* [Source code](#)

1. **AddBoundsToKineticLaw**

[Source code](#)

Operation type: Request-response. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLaw>

Input: AddBoundsToKineticLawRequest (soap:body, use = literal) [Source code](#)

parameters type [AddBoundsToKineticLaw](#)

Adds UPPER_BOUND and LOWER_BOUND to a kinetic law. If there is no kinetic law associated with the reaction, a kinetic law object will also be added to the reaction, before adding the bounds. DefaultUpperBound is by default set to 1000. It is also possible to use different upper bounds for each reaction, e.g. by using gene expression data. These upper bounds can be supplied in the DataFile, and the DataColumnNumber (default=2) will specify which column in the data file should be used. If a data

file is used, then a mapping file must also be supplied. The mapping file must contain two columns, the first giving the IDs in the SBML model and the second giving the IDs matching the data file. The IDs of the data file are expected to be in column 1. Both the MappingFile and DataFile should contain a header.

- SbmIModelFiles - unbounded; type *string*
- DefaultValue - optional; type *int*
 - DataColumnNumber - optional; type *int*
 - MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
 - MappingFile - optional; type *string*
 - DataFile type *string*
- BatchMode - optional; type *boolean*

Output: AddBoundsToKineticLawResponse (soap:body, use = literal) [Source code](#)

- parameters** type *AddBoundsToKineticLawResponse*
- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
 - Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

- fault** type *SBMLmodFault*
- A fault message, contains the type and free text
- FaultEnum type *FaultEnum*
 - FaultMessage type *string*

2. AddBoundsToKineticLawBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawBase64Encoded

Input: AddBoundsToKineticLawBase64EncodedRequest (soap:body, use = literal) [Source code](#)

- parameters** type *AddBoundsToKineticLawBase64Encoded*
- SbmIModelFiles - unbounded; type *string*
 - DefaultValue type *int*
 - DataFile - optional; type *string*
 - DataColumnNumber - optional; type *int*
 - MappingFile - optional; type *string*
 - MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
 - BatchMode - optional; type *boolean*

Output: AddBoundsToKineticLawBase64EncodedResponse (soap:body, use = literal) [Source code](#)

- parameters** type *AddBoundsToKineticLawBase64EncodedResponse*
- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
 - Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

- fault** type *SBMLmodFault*
- A fault message, contains the type and free text
- FaultEnum type *FaultEnum*
 - FaultMessage type *string*

3. AddBoundsToKineticLawGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawGzippedBase64Encoded

Input: AddBoundsToKineticLawGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

- parameters** type *AddBoundsToKineticLawGzippedBase64Encoded*
- SbmIModelFiles - unbounded; type *string*
 - DefaultValue type *int*
 - DataFile - optional; type *string*
 - DataColumnNumber - optional; type *int*
 - MappingFile - optional; type *string*
 - MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
 - BatchMode - optional; type *boolean*

Output: AddBoundsToKineticLawGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

- parameters** type *AddBoundsToKineticLawGzippedBase64EncodedResponse*
- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*

- SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
 A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

4. AddBoundsToKineticLawText

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawText

Input: AddBoundsToKineticLawTextRequest (soap:body, use = literal) [Source code](#)

parameters type *AddBoundsToKineticLawText*

- SbmIModelFiles - unbounded; type *string*
- DefaultValue type *int*
- DataFile - optional; type *string*
- DataColumnNumber - optional; type *int*
- MappingFile - optional; type *string*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- BatchMode - optional; type *boolean*

Output: AddBoundsToKineticLawTextResponse (soap:body, use = literal) [Source code](#)

parameters type *AddBoundsToKineticLawTextResponse*

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
 A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

5. AddKineticLawParameter

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/AddKineticLawParameter

Input: AddKineticLawParameterRequest (soap:body, use = literal) [Source code](#)

parameters type *AddKineticLawParameter*
 Adds a new parameter to a kinetic law. If there is no kinetic law associated with the reaction, a kinetic law object will also be added to the reaction, before adding the parameter. The values of the new parameter for the different reactions should be in a tab delimited text file (Datafile). A mapping is then done between the datafile and the SBML model using the supplied mapping file. The mapping file must contain two columns, the first giving the IDs in the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file, mapping file and data file must be given as input, as well as the ID of the parameter will be added. The IDs of the data file are expected to be in column 1. By default the IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default values for the new parameter. Both the MappingFile and DataFile should contain a header.

- SbmIModelFiles - unbounded; type *string*
- ParameterId type *string*
- DefaultValue - optional; type *int*
 - DataColumnNumber - optional; type *int*
 - MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
 - MappingFile - optional; type *string*
 - DataFile type *string*
- BatchMode - optional; type *boolean*

Output: AddKineticLawParameterResponse (soap:body, use = literal) [Source code](#)

parameters type *AddKineticLawParameterResponse*

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
 A fault message, contains the type and free text

- FaultEnum type *FaultEnum*

■ FaultMessage type *string*

6. GetVersion

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/GetVersion>

Input: GetVersionRequest (soap:body, use = literal) [Source code](#)

parameters type *GetVersion*
Returns the webservice version.

Output: GetVersionResponse (soap:body, use = literal) [Source code](#)

parameters type *GetVersionResponse*
■ Version type *string*

7. ReplaceGlobalParameters

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParameters>

Input: ReplaceGlobalParametersRequest (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParameters*

Replaces the values of the global parameters in the SBML model with the supplied values from the datafile. The mapping file must contain two columns, the first giving the IDs in the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file and data file must be given as input. If mapping file is not given as input, the IDs in the datafile are expected to be the same as in the model. The IDs of the data file are expected to be in column 1 and they must exactly match the id's of the parameters in the SBML file'. By default the IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default. The DataFile should contain a header.

- DataColumnNumber - optional; type *int*
- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- MappingFile - optional; type *string*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- BatchMode - optional; type *boolean*

Output: ReplaceGlobalParametersResponse (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersResponse*
■ SbmIModelFiles - unbounded; type *SbmIModelFilesType*

- Name type *string*
- SbmIModelFile type *string*

■ Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

8. ReplaceGlobalParametersBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersBase64Encoded>

Input: ReplaceGlobalParametersBase64EncodedRequest (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersBase64Encoded*

- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: ReplaceGlobalParametersBase64EncodedResponse (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersBase64EncodedResponse*
■ SbmIModelFiles - unbounded; type *SbmIModelFilesType*

- Name type *string*
- SbmIModelFile type *string*

■ Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

9. ReplaceGlobalParametersGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersGzippedBase64Encoded>

Input: ReplaceGlobalParametersGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersGzippedBase64Encoded*

- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: ReplaceGlobalParametersGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersGzippedBase64EncodedResponse*

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

10. ReplaceGlobalParametersText

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersText>

Input: ReplaceGlobalParametersTextRequest (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersText*

- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: ReplaceGlobalParametersTextResponse (soap:body, use = literal) [Source code](#)

parameters type *ReplaceGlobalParametersTextResponse*

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

11. ReplaceInitialConcentrationsOfSpecies

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpecies>

Input: ReplaceInitialConcentrationsOfSpeciesRequest (soap:body, use = literal) [Source code](#)

parameters type *ReplaceInitialConcentrationsOfSpecies*
Edits the initial concentrations of species. Input is the SBML file and a file containing two columns, the first giving the Species ID and the second giving the new concentration value.

- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- MappingFile - optional; type *string*

- DataColumnNumber - optional; type *int*
- BatchMode - optional; type *boolean*

Output: ReplaceInitialConcentrationsOfSpeciesResponse (soap:body, use = literal) [Source code](#)

- parameters** type *ReplaceInitialConcentrationsOfSpeciesResponse*
- SbmlModelFiles - unbounded; type *SbmlModelFilesType*
 - Name type *string*
 - SbmlModelFile type *string*
 - Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

- fault** type *SBMLmodFault*
- A fault message, contains the type and free text
- FaultEnum type *FaultEnum*
 - FaultMessage type *string*

12. ReplaceInitialConcentrationsOfSpeciesBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesBase64Encoded

Input: ReplaceInitialConcentrationsOfSpeciesBase64EncodedRequest (soap:body, use = literal) [Source code](#)

- parameters** type *ReplaceInitialConcentrationsOfSpeciesBase64Encoded*
- SbmlModelFiles - unbounded; type *string*
 - DataFile type *string*
 - DataColumnNumber - optional; type *int*
 - MappingFile - optional; type *string*
 - BatchMode - optional; type *boolean*

Output: ReplaceInitialConcentrationsOfSpeciesBase64EncodedResponse (soap:body, use = literal) [Source code](#)

- parameters** type *ReplaceInitialConcentrationsOfSpeciesBase64EncodedResponse*
- SbmlModelFiles - unbounded; type *SbmlModelFilesType*
 - Name type *string*
 - SbmlModelFile type *string*
 - Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

- fault** type *SBMLmodFault*
- A fault message, contains the type and free text
- FaultEnum type *FaultEnum*
 - FaultMessage type *string*

13. ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded

Input: ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

- parameters** type *ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded*
- SbmlModelFiles - unbounded; type *string*
 - DataFile type *string*
 - DataColumnNumber - optional; type *int*
 - MappingFile - optional; type *string*
 - BatchMode - optional; type *boolean*

Output: ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

- parameters** type *ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedResponse*
- SbmlModelFiles - unbounded; type *SbmlModelFilesType*
 - Name type *string*
 - SbmlModelFile type *string*
 - Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

- fault** type *SBMLmodFault*
- A fault message, contains the type and free text
- FaultEnum type *FaultEnum*
 - FaultMessage type *string*

14. ReplaceInitialConcentrationsOfSpeciesText

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesText>

Input: [ReplaceInitialConcentrationsOfSpeciesTextRequest \(soap:body, use = literal\) Source code](#)

parameters type [ReplaceInitialConcentrationsOfSpeciesText](#)

- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: [ReplaceInitialConcentrationsOfSpeciesTextResponse \(soap:body, use = literal\) Source code](#)

parameters type [ReplaceInitialConcentrationsOfSpeciesTextResponse](#)

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: [SBMLmodFault \(soap:fault, use = literal\) Source code](#)

fault type [SBMLmodFault](#)
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

15. ReplaceKineticLawParameter

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameter>

Input: [ReplaceKineticLawParameterRequest \(soap:body, use = literal\) Source code](#)

parameters type [ReplaceKineticLawParameter](#)
Maps data between SBML model parameter and some columnbased data (e.g. gene expression data). The mapping file must contain two columns, the first giving the IDs in the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file, mapping file and data file must be given as input, as well as the ID of the parameter that will gets its value replaced. The IDs of the data file are expected to be in column 1. By default the IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default. Both the MappingFile and DataFile should contain a header.

- ParameterId type *string*
- DataColumnNumber - optional; type *int*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- SbmIModelFiles - unbounded; type *string*
- DataFile type *string*
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: [ReplaceKineticLawParameterResponse \(soap:body, use = literal\) Source code](#)

parameters type [ReplaceKineticLawParameterResponse](#)

- SbmIModelFiles - unbounded; type *SbmIModelFilesType*
 - Name type *string*
 - SbmIModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: [SBMLmodFault \(soap:fault, use = literal\) Source code](#)

fault type [SBMLmodFault](#)
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

16. ReplaceKineticLawParameterBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterBase64Encoded>

Input: [ReplaceKineticLawParameterBase64EncodedRequest \(soap:body, use = literal\) Source code](#)

parameters type [ReplaceKineticLawParameterBase64Encoded](#)

- SbmIModelFiles - unbounded; type *string*
- ParameterId type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MappingFile - optional; type *string*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- BatchMode - optional; type *boolean*

Output: [ReplaceKineticLawParameterBase64EncodedResponse \(soap:body, use = literal\) Source code](#)

```

parameters type ReplaceKineticLawParameterBase64EncodedResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string

```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

```

fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string

```

17. ReplaceKineticLawParameterGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterGzippedBase64Encoded>

Input: ReplaceKineticLawParameterGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

```

parameters type ReplaceKineticLawParameterGzippedBase64Encoded
  ■ SbmlModelFiles - unbounded; type string
  ■ ParameterId type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean

```

Output: ReplaceKineticLawParameterGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

```

parameters type ReplaceKineticLawParameterGzippedBase64EncodedResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string

```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

```

fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string

```

18. ReplaceKineticLawParameterText

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterText>

Input: ReplaceKineticLawParameterTextRequest (soap:body, use = literal) [Source code](#)

```

parameters type ReplaceKineticLawParameterText
  ■ SbmlModelFiles - unbounded; type string
  ■ ParameterId type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean

```

Output: ReplaceKineticLawParameterTextResponse (soap:body, use = literal) [Source code](#)

```

parameters type ReplaceKineticLawParameterTextResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string

```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

```

fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string

```

19. ScaleGlobalParametersBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersBase64Encoded>

Input: ScaleGlobalParametersBase64EncodedRequest (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersBase64Encoded
  ■ SbmlModelFiles - unbounded; type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean
```

Output: ScaleGlobalParametersBase64EncodedResponse (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersBase64EncodedResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string
```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

```
fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string
```

20. ScaleGlobalParametersGzippedBase64Encoded

[Source code](#)

Operation type: Request-response. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersGzippedBase64Encoded>

Input: ScaleGlobalParametersGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersGzippedBase64Encoded
  ■ SbmlModelFiles - unbounded; type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean
```

Output: ScaleGlobalParametersGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersGzippedBase64EncodedResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string
```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

```
fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string
```

21. ScaleGlobalParametersText

[Source code](#)

Operation type: Request-response. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersText>

Input: ScaleGlobalParametersTextRequest (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersText
  ■ SbmlModelFiles - unbounded; type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean
```

Output: ScaleGlobalParametersTextResponse (soap:body, use = literal) [Source code](#)

```
parameters type ScaleGlobalParametersTextResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string
```

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

22. ScaleKineticLawParameter

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameter

Input: ScaleKineticLawParameterRequest (soap:body, use = literal) [Source code](#)

parameters type *ScaleKineticLawParameter*
Multiplies a kinetic law parameter with supplied columnbased data file (e.g. gene expression data). The mapping file must contain two columns, the first giving the IDs in the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file, mapping file and data file must be given as input, as well as the ID of the parameter that will gets its value scaled. The IDs of the data file are expected to be in column 1. By default the IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default. Both the MappingFile and DataFile should contain a header.

- ParameterId type *string*
- DataColumnNumber - optional; type *int*
- MergeMode type *string*
- SbmlModelFiles - unbounded; type *string*
- DataFile type *string*
- MappingFile - optional; type *string*
- BatchMode - optional; type *boolean*

Output: ScaleKineticLawParameterResponse (soap:body, use = literal) [Source code](#)

parameters type *ScaleKineticLawParameterResponse*

- SbmlModelFiles - unbounded; type *SbmlModelFilesType*
 - Name type *string*
 - SbmlModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

23. ScaleKineticLawParameterBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterBase64Encoded

Input: ScaleKineticLawParameterBase64EncodedRequest (soap:body, use = literal) [Source code](#)

parameters type *ScaleKineticLawParameterBase64Encoded*

- SbmlModelFiles - unbounded; type *string*
- ParameterId type *string*
- DataFile type *string*
- DataColumnNumber - optional; type *int*
- MappingFile - optional; type *string*
- MergeMode - optional; type *MergeModeType* - type *string* with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
- BatchMode - optional; type *boolean*

Output: ScaleKineticLawParameterBase64EncodedResponse (soap:body, use = literal) [Source code](#)

parameters type *ScaleKineticLawParameterBase64EncodedResponse*

- SbmlModelFiles - unbounded; type *SbmlModelFilesType*
 - Name type *string*
 - SbmlModelFile type *string*
- Warnings - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

24. ScaleKineticLawParameterGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterGzippedBase64Encoded>

Input: [ScaleKineticLawParameterGzippedBase64EncodedRequest \(soap:body, use = literal\) Source code](#)

```
parameters type ScaleKineticLawParameterGzippedBase64Encoded
  ■ SbmlModelFiles - unbounded; type string
  ■ ParameterId type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean
```

Output: [ScaleKineticLawParameterGzippedBase64EncodedResponse \(soap:body, use = literal\) Source code](#)

```
parameters type ScaleKineticLawParameterGzippedBase64EncodedResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string
```

Fault: [SBMLmodFault \(soap:fault, use = literal\) Source code](#)

```
fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string
```

25. [ScaleKineticLawParameterText](#)

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterText>

Input: [ScaleKineticLawParameterTextRequest \(soap:body, use = literal\) Source code](#)

```
parameters type ScaleKineticLawParameterText
  ■ SbmlModelFiles - unbounded; type string
  ■ ParameterId type string
  ■ DataFile type string
  ■ DataColumnNumber - optional; type int
  ■ MappingFile - optional; type string
  ■ MergeMode - optional; type MergeModeType - type string with restriction - enum { 'MAX', 'MIN', 'SUM', 'MEAN', 'MEDIAN', 'CUSTOM' }
  ■ BatchMode - optional; type boolean
```

Output: [ScaleKineticLawParameterTextResponse \(soap:body, use = literal\) Source code](#)

```
parameters type ScaleKineticLawParameterTextResponse
  ■ SbmlModelFiles - unbounded; type SbmlModelFilesType
    ■ Name type string
    ■ SbmlModelFile type string
  ■ Warnings - optional, unbounded; type string
```

Fault: [SBMLmodFault \(soap:fault, use = literal\) Source code](#)

```
fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
  ■ FaultMessage type string
```

26. [ValidateSBMLModel](#)

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModel>

Input: [ValidateSBMLModelRequest \(soap:body, use = literal\) Source code](#)

```
parameters type ValidateSBMLModel
Validates an SBML model.
  ■ SbmlModelFile type string
```

Output: [ValidateSBMLModelResponse \(soap:body, use = literal\) Source code](#)

```
parameters type ValidateSBMLModelResponse
Returns true if the SBML model is valid or returns the first error encountered.
  ■ ModelsValid type boolean
  ■ ErrorMessages - optional, unbounded; type string
```

Fault: [SBMLmodFault \(soap:fault, use = literal\) Source code](#)

```
fault type SBMLmodFault
A fault message, contains the type and free text
  ■ FaultEnum type FaultEnum
```

▪ FaultMessage type *string*

27. ValidateSBMLModelBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelBase64Encoded>

Input: ValidateSBMLModelBase64EncodedRequest (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelBase64Encoded*

- SbmlModelFile type *string*

Output: ValidateSBMLModelBase64EncodedResponse (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelBase64EncodedResponse*

- ModellsValid type *boolean*
- ErrorMessages - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

28. ValidateSBMLModelGzippedBase64Encoded

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelGzippedBase64Encoded>

Input: ValidateSBMLModelGzippedBase64EncodedRequest (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelGzippedBase64Encoded*

- SbmlModelFile type *string*

Output: ValidateSBMLModelGzippedBase64EncodedResponse (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelGzippedBase64EncodedResponse*

- ModellsValid type *boolean*
- ErrorMessages - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

29. ValidateSBMLModelText

[Source code](#)

Operation type: *Request-response*. The endpoint receives a message, and sends a correlated message.

SOAP action: <http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelText>

Input: ValidateSBMLModelTextRequest (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelText*

- SbmlModelFile type *string*

Output: ValidateSBMLModelTextResponse (soap:body, use = literal) [Source code](#)

parameters type *ValidateSBMLModelTextResponse*

- ModellsValid type *boolean*
- ErrorMessages - optional, unbounded; type *string*

Fault: SBMLmodFault (soap:fault, use = literal) [Source code](#)

fault type *SBMLmodFault*
A fault message, contains the type and free text

- FaultEnum type *FaultEnum*
- FaultMessage type *string*

WSDL source code

```
<?xml version="1.0"?>
<wsdl:definitions targetNamespace="http://sbmlmod.uit.no:8080/sbmlmod" name="SBMLmod"
  xmlns:sbml="http://www.sbml.org/sbml/level2/version3"
```

```
xmlns:sawSDL="http://www.w3.org/ns/sawSDL"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:wSDL="http://schemas.xmlsoap.org/wSDL/"
xmlns:tns="http://sbmlmod.uit.no:8080/sbmlmod"
xmlns:soap="http://schemas.xmlsoap.org/wSDL/soap/"
```

```
>
<wSDL:types>
  <xsd:schema targetNamespace="http://sbmlmod.uit.no:8080/sbmlmod">
    <xsd:simpleType name="MergeModeType">
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="MAX" />
        <xsd:enumeration value="MIN" />
        <xsd:enumeration value="SUM" />
        <xsd:enumeration value="MEAN" />
        <xsd:enumeration value="MEDIAN" />
        <xsd:enumeration value="CUSTOM" />
      </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="ReplaceGlobalParameters">
      <xsd:annotation>
        <xsd:documentation> Replaces the values of the global parameters in the SBML model with the
        supplied values from the datafile. The mapping file must contain two columns, the first giving the
        IDs in the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML
        model file and data file must be given as input. If mapping file is not given as input, the IDs in the
        datafile are expected to be the same as in the model. The IDs of the data file are expected to be
        in column 1 and they must exactly match the id's of the parameters in the SBML file'. By default
        the IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by
        default. The DataFile should contain a header. </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0" maxOccurs="1" />
        <xsd:element name="SbmlModelFiles" type="xsd:string"
          sawSDL:modelReference="http://edamontology.org/data_0950
          http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
          maxOccurs="unbounded" minOccurs="1" />
        <xsd:element name="DataFile" type="xsd:string"
          sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
          http://wsio.org/transfer_011 http://wsio.org/compression_022" />
        <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1"
          sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
          http://wsio.org/transfer_011 http://wsio.org/compression_022" />
        <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
          minOccurs="0" />
        <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="ReplaceGlobalParametersResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
          sawSDL:modelReference="http://edamontology.org/data_0950
          http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
          maxOccurs="unbounded" minOccurs="1" />
        <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
          sawSDL:modelReference="http://edamontology.org/data_0006 http://purl.org/edam/format/ANY
          http://purl.org/webservices/transfer/INLINE http://purl.org/webservices/archive-
          method/PLAIN_TEXT" />
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="ReplaceKineticLawParameter">
    <xsd:annotation>
      <xsd:documentation> Maps data between SBML model parameter and some columnbased data
      (e.g. gene expression data). The mapping file must contain two columns, the first giving the IDs in
      the SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file,
      mapping file and data file must be given as input, as well as the ID of the parameter that will gets
      its value replaced. The IDs of the data file are expected to be in column 1. By default the
      IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default.
      Both the MappingFile and DataFile should contain a header. </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
</wSDL:types>
```



```

<xsd:sequence>
  <xsd:element name="ParameterId" type="xsd:string" />
  <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0" maxOccurs="1" />
  <!-- xsd:element name="MergeMode" type="xsd:string" / -->
  <xsd:element name="MergeMode" type="tns:MergeModeType" minOccurs="0"
maxOccurs="1" />
  <xsd:element name="SbmlModelFiles" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
  <xsd:element name="DataFile" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
http://wsio.org/transfer_011 http://wsio.org/compression_022" />
  <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
http://wsio.org/transfer_011 http://wsio.org/compression_022" />
  <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
sawSDL:modelReference="http://purl.org/edam/content-type/RAW_FILE
http://purl.org/edam/format/ANY http://purl.org/webservices/transfer/INLINE
http://purl.org/webservices/archive-method/PLAIN_TEXT" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameter">
  <xsd:annotation>
    <xsd:documentation> Multiplies a kinetic law parameter with supplied columnbased data file (e.g.
gene expression data). The mapping file must contain two columns, the first giving the IDs in the
SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file,
mapping file and data file must be given as input, as well as the ID of the parameter that will gets
its value scaled. The IDs of the data file are expected to be in column 1. By default the
IdColumnNumber=2, which means that the data in column 2 of the DataFile will be used by default.
Both the MappingFile and DataFile should contain a header. </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ParameterId" type="xsd:string" />
      <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0" maxOccurs="1" />
      <!-- xsd:element name="MergeMode" type="xsd:string" / -->
      <xsd:element name="MergeMode" type="xsd:string" minOccurs="1" maxOccurs="1" />
      <xsd:element name="SbmlModelFiles" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="DataFile" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
http://wsio.org/transfer_011 http://wsio.org/compression_022" />
      <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
http://wsio.org/transfer_011 http://wsio.org/compression_022" />
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
sawSDL:modelReference="http://purl.org/edam/content-type/RAW_FILE

```



```

http://purl.org/edam/format/ANY http://purl.org/webservices/transfer/INLINE
http://purl.org/webservices/archive-method/PLAIN\_TEXT />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="AddKineticLawParameter">
  <xsd:annotation>
    <xsd:documentation> Adds a new parameter to a kinetic law. If there is no kinetic law associated
    with the reaction, a kinetic law object will also be added to the reaction, before adding the
    parameter. The values of the new parameter for the different reactions should be in a tab delimited
    text file (Datafile). A mapping is then done between the datafile and the SBML model using the
    supplied mapping file. The mapping file must contain two columns, the first giving the IDs in the
    SBML model and the second giving the IDs matching the IDs of the DataFile. SBML model file,
    mapping file and data file must be given as input, as well as the ID of the parameter will be
    added. The IDs of the data file are expected to be in column 1. By default the IdColumnNumber=2,
    which means that the data in column 2 of the DataFile will be used by default values for the new
    parameter. Both the MappingFile and DataFile should contain a header. </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string"
        sawsdl:modelReference="http://edamontology.org/data_0950
        http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
        maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="ParameterId" type="xsd:string" />
      <xsd:element name="DefaultValue" type="xsd:int" minOccurs="0" maxOccurs="1" />
      <xsd:sequence minOccurs="0" maxOccurs="1">
        <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0"
          maxOccurs="1" />
        <!-- xsd:element name="MergeMode" type="xsd:string" / -->
        <xsd:element name="MergeMode" type="tns:MergeModeType" minOccurs="0"
          maxOccurs="1" />
        <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1"
          sawsdl:modelReference="http://edamontology.org/data_0006 http://filext.com/file-
          extension/TSV http://wsio.org/transfer_011 http://wsio.org/compression_022" />
        <xsd:element name="DataFile" type="xsd:string"
          sawsdl:modelReference="http://edamontology.org/data_0006 http://filext.com/file-
          extension/TSV http://wsio.org/transfer_011 http://wsio.org/compression_022" />
      </xsd:sequence>
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddKineticLawParameterResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
        sawsdl:modelReference="http://edamontology.org/data_0950
        http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
        maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
        sawsdl:modelReference="http://purl.org/edam/content-type/RAW_FILE
        http://purl.org/edam/format/ANY http://purl.org/webservices/transfer/INLINE
        http://purl.org/webservices/archive-method/PLAIN_TEXT" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLaw">
  <xsd:annotation>
    <xsd:documentation> Adds UPPER_BOUND and LOWER_BOUND to a kinetic law. If there is no
    kinetic law associated with the reaction, a kinetic law object will also be added to the reaction,
    before adding the bounds. DefaultUpperBound is by default set to 1000. It is also possible to use
    different upper bounds for each reaction, e.g. by using gene expression data. These upper bounds
    can be supplied in the DataFile, and the DataColumnNumber (default=2) will specifies which column
    in the data file should be used. If a data file is used, then a mapping file must also be supplied.
    The mapping file must contain two columns, the first giving the IDs in the SBML model and the
    second giving the IDs matching the data file. The IDs of the data file are expected to be in column
    1. Both the MappingFile and DataFile should contain a header. </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string"
        sawsdl:modelReference="http://edamontology.org/data_0950
        http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"

```

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maxOccurs="unbounded" minOccurs="1" />
<xsd:element name="DefaultValue" type="xsd:int" minOccurs="0" maxOccurs="1" />
<xsd:sequence minOccurs="0" maxOccurs="1">
  <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0"
maxOccurs="1" />
  <!-- xsd:element name="MergeMode" type="xsd:string" / -->
  <xsd:element name="MergeMode" type="tns:MergeModeType" minOccurs="0"
maxOccurs="1" />
  <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-
extension/TSV http://wsio.org/transfer_011 http://wsio.org/compression_022" />
  <xsd:element name="DataFile" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-
extension/TSV http://wsio.org/transfer_011 http://wsio.org/compression_022" />
</xsd:sequence>
<xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLawResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
sawSDL:modelReference="http://purl.org/edam/content-type/RAW_FILE
http://purl.org/edam/format/ANY http://purl.org/webservices/transfer/INLINE
http://purl.org/webservices/archive-method/PLAIN_TEXT" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpecies">
  <xsd:annotation>
    <xsd:documentation> Edits the initial concentrations of species. Input is the SBML file and a file
containing two columns, the first giving the Species ID and the second giving the new
concentration value. </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="DataFile" type="xsd:string"
sawSDL:modelReference="http://edamontology.org/data_0006 http://filext.com/file-extension/TSV
http://wsio.org/transfer_011 http://wsio.org/compression_022" maxOccurs="1" minOccurs="1" />
      <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
      <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
sawSDL:modelReference="http://edamontology.org/data_0950
http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" minOccurs="0" maxOccurs="unbounded"
sawSDL:modelReference="http://purl.org/edam/content-type/RAW_FILE
http://purl.org/edam/format/ANY http://purl.org/webservices/transfer/INLINE
http://purl.org/webservices/archive-method/PLAIN_TEXT" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ValidateSBMLModel">
  <xsd:annotation>
    <xsd:documentation> Validates an SBML model. </xsd:documentation>
  </xsd:annotation>

```

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        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="SbmlModelFile" type="xsd:string"
                    sawsdl:modelReference="http://edamontology.org/data_0950
                    http://edamontology.org/format_2585 http://wsio.org/transfer_011 http://wsio.org/compression_022"
                    />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelResponse">
        <xsd:annotation>
            <xsd:documentation> Returns true if the SBML model is valid or returns the first error
            encountered. </xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="ModellsValid" type="xsd:boolean" />
                <xsd:element name="ErrorMessages" type="xsd:string" minOccurs="0"
                    maxOccurs="unbounded" />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="SBMLmodFault" type="tns:FaultType" />
    <xsd:complexType name="FaultType">
        <xsd:annotation>
            <xsd:documentation> A fault message, contains the type and free text </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element ref="tns:FaultEnum" />
            <xsd:element name="FaultMessage" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="FaultEnum" type="tns:FaultEnumType" />
    <xsd:simpleType name="FaultEnumType">
        <xsd:annotation>
            <xsd:documentation> Error types to expect from the system </xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="FILE_HANDLING_ERROR" />
            <xsd:enumeration value="MISSING_ELEMENT" />
            <xsd:enumeration value="INTERNAL_ERROR" />
        </xsd:restriction>
    </xsd:simpleType>
    <xsd:complexType name="SbmlModelFilesType">
        <xsd:sequence>
            <xsd:element name="Name" type="xsd:string" />
            <xsd:element name="SbmlModelFile" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="ListSbmlModelFiles" />
    <xsd:element name="GetVersion">
        <xsd:annotation>
            <xsd:documentation> Returns the webservice version. </xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
            <xsd:sequence />
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="GetVersionResponse">
        <xsd:complexType>
            <xsd:sequence>
                <xsd:element name="Version" type="xsd:string" />
            </xsd:sequence>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelText">
        <xsd:complexType>

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        <xsd:sequence>
          <xsd:element name="SbmlModelFile" type="xsd:string"
            sawsdl:modelReference="http://edamontology.org/data_0950
            http://edamontology.org/format_2585 http://wsio.org/transfer_011" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelTextResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="ModellsValid" type="xsd:boolean" />
          <xsd:element name="ErrorMessages" type="xsd:string" minOccurs="0"
            maxOccurs="unbounded" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelBase64Encoded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="SbmlModelFile" type="xsd:string"
            sawsdl:modelReference="http://edamontology.org/data_0950
            http://edamontology.org/format_2585 http://wsio.org/transfer_011 " />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelBase64EncodedResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="ModellsValid" type="xsd:boolean" />
          <xsd:element name="ErrorMessages" type="xsd:string" minOccurs="0"
            maxOccurs="unbounded" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelGzippedBase64Encoded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="SbmlModelFile" type="xsd:string"
            sawsdl:modelReference="http://edamontology.org/data_0950
            http://edamontology.org/format_2585 http://wsio.org/transfer_011 " />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ValidateSBMLModelGzippedBase64EncodedResponse">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="ModellsValid" type="xsd:boolean" />
          <xsd:element name="ErrorMessages" type="xsd:string" minOccurs="0"
            maxOccurs="unbounded" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ReplaceGlobalParametersText">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="SbmlModelFiles" type="xsd:string" minOccurs="1"
            maxOccurs="unbounded" />
          <xsd:element name="DataFile" type="xsd:string" minOccurs="1" maxOccurs="1" />
          <xsd:element name="DataColumnNumber" type="xsd:int" minOccurs="0" maxOccurs="1" />
          <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
            minOccurs="0" />
          <xsd:element name="MappingFile" type="xsd:string" minOccurs="0" maxOccurs="1" />
          <xsd:element name="BatchMode" type="xsd:boolean" minOccurs="0" maxOccurs="1" />
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="ReplaceGlobalParametersTextResponse">
      <xsd:complexType>
        <xsd:sequence>

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        <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType" minOccurs="1"
maxOccurs="unbounded" />
        <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
    </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersTextFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ReplaceGlobalParametersTextFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType" minOccurs="1"
maxOccurs="unbounded" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ReplaceGlobalParametersBase64EncodedFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersGzippedBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersGzippedBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParametersGzippedBase64EncodedFault">
    <xsd:complexType>

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        <xsd:sequence>
            <xsd:element name="ReplaceGlobalParametersGzippedBase64EncodedFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterText">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1" minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterTextResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType" maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1" minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType" maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterGzippedBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1" minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>

```



```

</xsd:element>
<xsd:element name="ReplaceKineticLawParameterGzippedBase64EncodedResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
        maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterTextFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ReplaceKineticLawParameterTextFault" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterBase64EncodedFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ReplaceKineticLawParameterBase64EncodedFault" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceKineticLawParameterGzippedBase64EncodedFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ReplaceKineticLawParameterGzippedBase64EncodedFault"
        type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceGlobalParamtersBase64EncodedFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="ReplaceGlobalParamtersBase64EncodedFault" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterText">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
        minOccurs="1" />
      <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
      <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
      <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
      <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
      <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
        minOccurs="0" />
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterTextResponse">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
        maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterBase64Encoded">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
        minOccurs="1" />

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        <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
        <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
        <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
        <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
        <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
        <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterGzippedBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
            <xsd:element name="ParameterId" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterGzippedBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterTextFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ScaleKineticLawParameterTextFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ScaleKineticLawParameterBase64EncodedFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleKineticLawParameterGzippedBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ScaleKineticLawParameterGzippedBase64EncodedFault" type="xsd:string"
/>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLawText">
    <xsd:complexType>
        <xsd:sequence>

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```

<xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
<xsd:element name="DefaultValue" type="xsd:int" maxOccurs="1" minOccurs="1" />
<xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
<xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
<xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
<xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
<xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLawTextResponse">
<xsd:complexType>
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<xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
maxOccurs="unbounded" minOccurs="1" />
<xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
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</xsd:complexType>
</xsd:element>
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<xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
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<xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
<xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
<xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
<xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
<xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
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<xsd:sequence>
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<xsd:sequence>
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minOccurs="1" />
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<xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
<xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
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<xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
<xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
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</xsd:element>
<xsd:element name="AddBoundsToKineticLawGzippedBase64EncodedResponse">
<xsd:complexType>
<xsd:sequence>
<xsd:element name="SbmlModelFiles" type="tns:SbmlModelFilesType"
maxOccurs="unbounded" minOccurs="1" />
<xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
</xsd:sequence>
</xsd:complexType>

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</xsd:element>
<xsd:element name="AddBoundsToKineticLawTextFault">
  <xsd:complexType>
    <xsd:sequence>
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    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLawBase64EncodedFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="AddBoundsToKineticLawBase64EncodedFault" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="AddBoundsToKineticLawGzippedBase64EncodedFault">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="AddBoundsToKineticLawGzippedBase64EncodedFault" type="xsd:string" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesText">
  <xsd:complexType>
    <xsd:sequence>
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      <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
      <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesTextResponse">
  <xsd:complexType>
    <xsd:sequence>
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      <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesBase64Encoded">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded" minOccurs="1" />
      <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
      <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
      <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
      <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesBase64EncodedResponse">
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    <xsd:sequence>
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      <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded">
  <xsd:complexType>
    <xsd:sequence>

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        <xsd:element name="SbmlModelFiles" type="xsd:string" maxOccurs="unbounded"
minOccurs="1" />
        <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
        <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
        <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
        <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
    </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
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maxOccurs="unbounded" minOccurs="1" />
            <xsd:element name="Warnings" type="xsd:string" maxOccurs="unbounded" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesTextFault">
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        <xsd:sequence>
            <xsd:element name="ReplaceInitialConcentrationsOfSpeciesTextFault" type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ReplaceInitialConcentrationsOfSpeciesBase64EncodedFault"
type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedFault"
type="xsd:string" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersText">
    <xsd:complexType>
        <xsd:sequence>
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minOccurs="1" />
            <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
            <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersTextResponse">
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        <xsd:sequence>
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maxOccurs="unbounded" minOccurs="1" />
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    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
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        minOccurs="1" />
        <xsd:element name="DataFile" type="xsd:string" maxOccurs="1" minOccurs="1" />
        <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
        <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
        <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
        <xsd:element name="BatchMode" type="xsd:boolean" maxOccurs="1" minOccurs="0" />
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</xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
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maxOccurs="unbounded" minOccurs="1" />
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        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersGzippedBase64Encoded">
    <xsd:complexType>
        <xsd:sequence>
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minOccurs="1" />
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            <xsd:element name="DataColumnNumber" type="xsd:int" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MappingFile" type="xsd:string" maxOccurs="1" minOccurs="0" />
            <xsd:element name="MergeMode" type="tns:MergeModeType" maxOccurs="1"
minOccurs="0" />
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</xsd:element>
<xsd:element name="ScaleGlobalParametersGzippedBase64EncodedResponse">
    <xsd:complexType>
        <xsd:sequence>
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maxOccurs="unbounded" minOccurs="1" />
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    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersTextFault">
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        <xsd:sequence>
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    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersBase64EncodedFault">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="ScaleGlobalParametersBase64EncodedFault" type="xsd:string" />
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    </xsd:complexType>
</xsd:element>
<xsd:element name="ScaleGlobalParametersGzippedBase64EncodedFault">
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        <xsd:sequence>
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        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</xsd:schema>
</wsdl:types>
<wsdl:message name="ReplaceGlobalParametersRequest">
    <wsdl:part name="parameters" element="tns:ReplaceGlobalParameters" />

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```
</wsdl:message>
<wsdl:message name="ReplaceGlobalParametersResponse">
  <wsdl:part element="tns:ReplaceGlobalParametersResponse" name="parameters" _/>
</wsdl:message>
<wsdl:message name="ReplaceKineticLawParameterRequest">
  <wsdl:part element="tns:ReplaceKineticLawParameter" name="parameters" _/>
</wsdl:message>
<wsdl:message name="ReplaceKineticLawParameterResponse">
  <wsdl:part element="tns:ReplaceKineticLawParameterResponse" name="parameters" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelRequest">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModel" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelResponse">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelResponse" _/>
</wsdl:message>
<wsdl:message name="ScaleKineticLawParameterRequest">
  <wsdl:part name="parameters" element="tns:ScaleKineticLawParameter" _/>
</wsdl:message>
<wsdl:message name="ScaleKineticLawParameterResponse">
  <wsdl:part name="parameters" element="tns:ScaleKineticLawParameterResponse" _/>
</wsdl:message>
<wsdl:message name="ReplacelInitialConcentrationsOfSpeciesRequest">
  <wsdl:part name="parameters" element="tns:ReplacelInitialConcentrationsOfSpecies" _/>
</wsdl:message>
<wsdl:message name="ReplacelInitialConcentrationsOfSpeciesResponse">
  <wsdl:part name="parameters" element="tns:ReplacelInitialConcentrationsOfSpeciesResponse" _/>
</wsdl:message>
<wsdl:message name="AddKineticLawParameterRequest">
  <wsdl:part name="parameters" element="tns:AddKineticLawParameter" _/>
</wsdl:message>
<wsdl:message name="AddKineticLawParameterResponse">
  <wsdl:part name="parameters" element="tns:AddKineticLawParameterResponse" _/>
</wsdl:message>
<wsdl:message name="AddBoundsToKineticLawRequest">
  <wsdl:part name="parameters" element="tns:AddBoundsToKineticLaw" _/>
</wsdl:message>
<wsdl:message name="AddBoundsToKineticLawResponse">
  <wsdl:part name="parameters" element="tns:AddBoundsToKineticLawResponse" _/>
</wsdl:message>
<wsdl:message name="SBMLmodFault">
  <wsdl:part name="fault" element="tns:SBMLmodFault" _/>
</wsdl:message>
<wsdl:message name="GetVersionRequest">
  <wsdl:part name="parameters" element="tns:GetVersion" _/>
</wsdl:message>
<wsdl:message name="GetVersionResponse">
  <wsdl:part name="parameters" element="tns:GetVersionResponse" _/>
</wsdl:message>
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  <wsdl:part name="parameters" element="tns:ValidateSBMLModelText" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelTextResponse">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelTextResponse" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelBase64EncodedRequest">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelBase64Encoded" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelBase64EncodedResponse">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelBase64EncodedResponse" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelGzippedBase64EncodedRequest">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelGzippedBase64Encoded" _/>
</wsdl:message>
<wsdl:message name="ValidateSBMLModelGzippedBase64EncodedResponse">
  <wsdl:part name="parameters" element="tns:ValidateSBMLModelGzippedBase64EncodedResponse" _/>
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[illegible]

[illegible]

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</wsdl:message>
<wsdl:message name="ReplaceInitialConcentrationsOfSpeciesBase64EncodedFault">
  <wsdl:part name="parameters" element="tns:ReplaceInitialConcentrationsOfSpeciesBase64EncodedFault" />
</wsdl:message>
<wsdl:message name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedFault">
  <wsdl:part name="parameters" element="tns:ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedFault" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersTextRequest">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersText" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersTextResponse">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersTextResponse" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersBase64EncodedRequest">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersBase64Encoded" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersBase64EncodedResponse">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersBase64EncodedResponse" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersGzippedBase64EncodedRequest">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersGzippedBase64Encoded" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersGzippedBase64EncodedResponse">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersGzippedBase64EncodedResponse" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersTextFault">
  <wsdl:part name="fault" element="tns:SBMLmodFault" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersBase64EncodedFault">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersBase64EncodedFault" />
</wsdl:message>
<wsdl:message name="ScaleGlobalParametersGzippedBase64EncodedFault">
  <wsdl:part name="parameters" element="tns:ScaleGlobalParametersGzippedBase64EncodedFault" />
</wsdl:message>
<wsdl:portType name="SBMLmod">
  <wsdl:operation name="ReplaceGlobalParameters">
    <wsdl:input message="tns:ReplaceGlobalParametersRequest" />
    <wsdl:output message="tns:ReplaceGlobalParametersResponse" />
    <wsdl:fault name="ReplaceGlobalParametersFault" message="tns:SBMLmodFault" />
  </wsdl:operation>
  <wsdl:operation name="ReplaceKineticLawParameter">
    <wsdl:input message="tns:ReplaceKineticLawParameterRequest" />
    <wsdl:output message="tns:ReplaceKineticLawParameterResponse" />
    <wsdl:fault name="ReplaceKineticLawParameterFault" message="tns:SBMLmodFault" />
  </wsdl:operation>
  <wsdl:operation name="ValidateSBMLModel">
    <wsdl:input message="tns:ValidateSBMLModelRequest" />
    <wsdl:output message="tns:ValidateSBMLModelResponse" />
    <wsdl:fault name="ValidateSBMLModelFault" message="tns:SBMLmodFault" />
  </wsdl:operation>
  <wsdl:operation name="ScaleKineticLawParameter">
    <wsdl:input message="tns:ScaleKineticLawParameterRequest" />
    <wsdl:output message="tns:ScaleKineticLawParameterResponse" />
    <wsdl:fault name="ScaleKineticLawParameterFault" message="tns:SBMLmodFault" />
  </wsdl:operation>
  <wsdl:operation name="AddKineticLawParameter">
    <wsdl:input message="tns:AddKineticLawParameterRequest" />
    <wsdl:output message="tns:AddKineticLawParameterResponse" />
    <wsdl:fault name="AddKineticLawParameterFault" message="tns:SBMLmodFault" />
  </wsdl:operation>
  <wsdl:operation name="AddBoundsToKineticLaw">
    <wsdl:input message="tns:AddBoundsToKineticLawRequest" />
    <wsdl:output message="tns:AddBoundsToKineticLawResponse" />
    <wsdl:fault name="AddBoundsToKineticLawFault" message="tns:SBMLmodFault" />
  </wsdl:operation>

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<wsdl:operation name="ReplaceInitialConcentrationsOfSpecies">
  <wsdl:input message="tns:ReplaceInitialConcentrationsOfSpeciesRequest" _/>
  <wsdl:output message="tns:ReplaceInitialConcentrationsOfSpeciesResponse" _/>
  <wsdl:fault name="ReplaceInitialConcentrationsOfSpeciesFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="GetVersion">
  <wsdl:input message="tns:GetVersionRequest" _/>
  <wsdl:output message="tns:GetVersionResponse" _/>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelText">
  <wsdl:input message="tns:ValidateSBMLModelTextRequest" _/>
  <wsdl:output message="tns:ValidateSBMLModelTextResponse" _/>
  <wsdl:fault name="ValidateSBMLTextFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelBase64Encoded">
  <wsdl:input message="tns:ValidateSBMLModelBase64EncodedRequest" _/>
  <wsdl:output message="tns:ValidateSBMLModelBase64EncodedResponse" _/>
  <wsdl:fault name="ValidateSBMLbase64encodedFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelGzippedBase64Encoded">
  <wsdl:input message="tns:ValidateSBMLModelGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ValidateSBMLModelGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="ValidateSBMLbase64encodedGzippedFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersText">
  <wsdl:input message="tns:ReplaceGlobalParametersTextRequest" _/>
  <wsdl:output message="tns:ReplaceGlobalParametersTextResponse" _/>
  <wsdl:fault name="ReplaceGlobalParametersTextFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersGzippedBase64Encoded">
  <wsdl:input message="tns:ReplaceGlobalParametersGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceGlobalParametersGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="ReplaceGlobalParametersGzippedBase64EncodedFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterText">
  <wsdl:input message="tns:ReplaceKineticLawParameterTextRequest" _/>
  <wsdl:output message="tns:ReplaceKineticLawParameterTextResponse" _/>
  <wsdl:fault name="ReplaceKineticLawParameterTextFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterBase64Encoded">
  <wsdl:input message="tns:ReplaceKineticLawParameterBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceKineticLawParameterBase64EncodedResponse" _/>
  <wsdl:fault name="ReplaceKineticLawParamterBase64EncodedFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterGzippedBase64Encoded">
  <wsdl:input message="tns:ReplaceKineticLawParameterGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceKineticLawParameterGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="ReplaceKineticLawParamterGzippedBase64Encoded" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersBase64Encoded">
  <wsdl:input message="tns:ReplaceGlobalParametersBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceGlobalParametersBase64EncodedResponse" _/>
  <wsdl:fault name="ReplaceGlobalParametersBase64EncodedFault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ScaleKineticLawParameterText">
  <wsdl:input message="tns:ScaleKineticLawParameterTextRequest" _/>
  <wsdl:output message="tns:ScaleKineticLawParameterTextResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ScaleKineticLawParameterBase64Encoded">
  <wsdl:input message="tns:ScaleKineticLawParameterBase64EncodedRequest" _/>
  <wsdl:output message="tns:ScaleKineticLawParameterBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>

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<wsdl:operation name="ScaleKineticLawParameterGzippedBase64Encoded">
  <wsdl:input message="tns:ScaleKineticLawParameterGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ScaleKineticLawParameterGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="AddBoundsToKineticLawText">
  <wsdl:input message="tns:AddBoundsToKineticLawTextRequest" _/>
  <wsdl:output message="tns:AddBoundsToKineticLawTextResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="AddBoundsToKineticLawBase64Encoded">
  <wsdl:input message="tns:AddBoundsToKineticLawBase64EncodedRequest" _/>
  <wsdl:output message="tns:AddBoundsToKineticLawBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="AddBoundsToKineticLawGzippedBase64Encoded">
  <wsdl:input message="tns:AddBoundsToKineticLawGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:AddBoundsToKineticLawGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesText">
  <wsdl:input message="tns:ReplaceInitialConcentrationsOfSpeciesTextRequest" _/>
  <wsdl:output message="tns:ReplaceInitialConcentrationsOfSpeciesTextResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesBase64Encoded">
  <wsdl:input message="tns:ReplaceInitialConcentrationsOfSpeciesBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceInitialConcentrationsOfSpeciesBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded">
  <wsdl:input message="tns:ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ReplaceInitialConcentrationsOfSpeciesGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersText">
  <wsdl:input message="tns:ScaleGlobalParametersTextRequest" _/>
  <wsdl:output message="tns:ScaleGlobalParametersTextResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersBase64Encoded">
  <wsdl:input message="tns:ScaleGlobalParametersBase64EncodedRequest" _/>
  <wsdl:output message="tns:ScaleGlobalParametersBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersGzippedBase64Encoded">
  <wsdl:input message="tns:ScaleGlobalParametersGzippedBase64EncodedRequest" _/>
  <wsdl:output message="tns:ScaleGlobalParametersGzippedBase64EncodedResponse" _/>
  <wsdl:fault name="fault" message="tns:SBMLmodFault" _/>
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="SBMLmodSOAP" type="tns:SBMLmod">
  <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http" _/>
  <wsdl:operation name="ReplaceGlobalParameters">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParameters" _/>
    <wsdl:input>
      <soap:body use="literal" _/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal" _/>
    </wsdl:output>
    <wsdl:fault name="ReplaceGlobalParametersFault">
      <soap:fault use="literal" name="ReplaceGlobalParametersFault" _/>
    </wsdl:fault>
  </wsdl:operation>

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<wsdl:operation name="ReplaceKineticLawParameter">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameter" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ReplaceKineticLawParameterFault">
    <soap:fault use="literal" name="ReplaceKineticLawParameterFault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModel">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModel" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ValidateSBMLModelFault">
    <soap:fault use="literal" name="ValidateSBMLModelFault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ScaleKineticLawParameter">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameter" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="ScaleKineticLawParameterFault">
    <soap:fault use="literal" name="ScaleKineticLawParameterFault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddKineticLawParameter">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/AddKineticLawParameter" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="AddKineticLawParameterFault">
    <soap:fault use="literal" name="AddKineticLawParameterFault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="AddBoundsToKineticLaw">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLaw" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="AddBoundsToKineticLawFault">
    <soap:fault use="literal" name="AddBoundsToKineticLawFault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpecies">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpecies" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>

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        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceInitialConcentrationsOfSpeciesFault">
        <soap:fault use="literal" name="ReplaceInitialConcentrationsOfSpeciesFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetVersion">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/GetVersion" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelText">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelText" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ValidateSBMLTextFault">
        <soap:fault use="literal" name="ValidateSBMLTextFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelBase64Encoded">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelBase64Encoded" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ValidateSBMLbase64encodedFault">
        <soap:fault use="literal" name="ValidateSBMLbase64encodedFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ValidateSBMLModelGzippedBase64Encoded">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ValidateSBMLModelGzippedBase64Encoded" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ValidateSBMLbase64encodedGzippedFault">
        <soap:fault use="literal" name="ValidateSBMLbase64encodedGzippedFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersText">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersText" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceGlobalParamtersTextFault">
        <soap:fault use="literal" name="ReplaceGlobalParamtersTextFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersBase64Encoded">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersBase64Encoded" />
    <wsdl:input>

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        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceGlobalParametersBase64EncodedFault">
        <soap:fault use="literal" name="ReplaceGlobalParametersBase64EncodedFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceGlobalParametersGzippedBase64Encoded">
    <soap:operation
soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceGlobalParametersGzippedBase64Encoded" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceGlobalParametersGzippedBase64EncodedFault">
        <soap:fault use="literal" name="ReplaceGlobalParametersGzippedBase64EncodedFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterText">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterText" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceKineticLawParameterTextFault">
        <soap:fault use="literal" name="ReplaceKineticLawParameterTextFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterBase64Encoded">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterBase64Encoded" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceKineticLawParamterBase64EncodedFault">
        <soap:fault use="literal" name="ReplaceKineticLawParamterBase64EncodedFault" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceKineticLawParameterGzippedBase64Encoded">
    <soap:operation
soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceKineticLawParameterGzippedBase64Encoded" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>
    <wsdl:fault name="ReplaceKineticLawParamterGzippedBase64Encoded">
        <soap:fault use="literal" name="ReplaceKineticLawParamterGzippedBase64Encoded" />
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ScaleKineticLawParameterText">
    <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterText" />
    <wsdl:input>
        <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal" />
    </wsdl:output>

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        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ScaleKineticLawParameterBase64Encoded">
        <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterBase64Encoded" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ScaleKineticLawParameterGzippedBase64Encoded">
        <soap:operation
            soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleKineticLawParameterGzippedBase64Encoded" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddBoundsToKineticLawText">
        <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawText" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddBoundsToKineticLawBase64Encoded">
        <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawBase64Encoded" />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="AddBoundsToKineticLawGzippedBase64Encoded">
        <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/AddBoundsToKineticLawGzippedBase64Encoded"
        />
        <wsdl:input>
            <soap:body use="literal" />
        </wsdl:input>
        <wsdl:output>
            <soap:body use="literal" />
        </wsdl:output>
        <wsdl:fault name="fault">
            <soap:fault use="literal" name="fault" />
        </wsdl:fault>
    </wsdl:operation>
    <wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesText">

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```

<soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesText" />
<wsdl:input>
  <soap:body use="literal" />
</wsdl:input>
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="fault">
  <soap:fault use="literal" name="fault" />
</wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesBase64Encoded">
  <soap:operation
    soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesBase64Encoded" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="fault">
    <soap:fault use="literal" name="fault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded">
  <soap:operation
    soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ReplaceInitialConcentrationsOfSpeciesGzippedBase64Encoded" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="fault">
    <soap:fault use="literal" name="fault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersText">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersText" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="fault">
    <soap:fault use="literal" name="fault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersBase64Encoded">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersBase64Encoded" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal" />
  </wsdl:output>
  <wsdl:fault name="fault">
    <soap:fault use="literal" name="fault" />
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ScaleGlobalParametersGzippedBase64Encoded">
  <soap:operation soapAction="http://sbmlmod.uit.no:8080/sbmlmod/ScaleGlobalParametersGzippedBase64Encoded" />
  <wsdl:input>
    <soap:body use="literal" />
  </wsdl:input>

```

```
<wsdl:output>
  <soap:body use="literal" />
</wsdl:output>
<wsdl:fault name="fault">
  <soap:fault use="literal" name="fault" />
</wsdl:fault>
</wsdl:operation>
</wsdl:binding>
<wsdl:service name="SBMLmod">
  <wsdl:port binding="tns:SBMLmodSOAP" name="SBMLmodSOAP">
    <soap:address location="http://sbmlmod.uit.no:8080/sbmlmod" />
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```

About *wsdl-viewer.xsl*

This page has been generated by wsdl-viewer.xsl, version 3.1.01

Author: [tomi vanek](#)

Download at <http://tomi.vanek.sk/xml/wsdl-viewer.xsl>.

The transformation was inspired by the article

Uche Ogbuji: [WSDL processing with XSLT](#)

This document was generated
by [libxslt](#) XSLT engine. The
engine processed the WSDL in
XSLT 1.0 compliant mode.