



INSURANCE SUBSIDY SERVICE SPECIFICATION

ver. 1.02

Historie dokumentu

Verze	Datum	Autor	Popis
0.1	15.02.2023	Michal Valach	Initial draft version
0.2	21.02.2023	Michal Valach	Add state and message
0.3	28.02.2023	Michal Valach	Formatting
1.0	03.03.2023	Michal Valach	Final version
1.0.1	30.03.2023	Michal Valach	Added L InsuranceSubprogram, changed minimum TLS specification
1.0.2	16.08.2023	Michal Valach	Final release version

Důvěrné informace:

Tento dokument obsahuje informace, které mají důvěrný obsah a jsou obchodním tajemstvím společnosti PGRLF. Mohou být použity pouze za účelem, pro který byly poskytnuty. Reprodukce, šíření a užití jakékoliv části tohoto dokumentu pro jiné účely musí být předem písemně odsouhlaseno společností PGRLF. Kromě případů, kde je uvedeno jinak, platí, že všechny názvy, obchodní známky a označení služeb, zmíněné v tomto dokumentu, jsou vlastnictvím společnosti PGRLF.

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1 Interface

Package in package 'Insurance subsidy'

1.1. WSDL Insurance Subsidy

Package «WSDLnamespace» in package 'Interface'

Insurance subsidy SOAP web service

1.1.1. Insurance_subsidy_v1.0 diagram

Class diagram in package 'WSDL Insurance Subsidy'

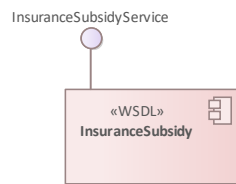


Figure 1: Insurance_subsidy_v1.0

1.1.2. Messages

Package in package 'WSDL Insurance Subsidy'

1.1.2.1. Messages diagram

Class diagram in package 'Messages'



Figure 2: Messages

1.1.3. InsuranceDataRequest

Class «WSDLmessage» in package 'Messages'

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 request	InsuranceDataRequest		

1.1.4. InsuranceDataResponse

Class «WSDLmessage» in package 'Messages'

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 response	InsuranceDataResponse		

1.1.5. PortTypes

Package in package 'WSDL Insurance Subsidy'

1.1.5.1. PortTypes diagram

Class diagram in package 'PortTypes'

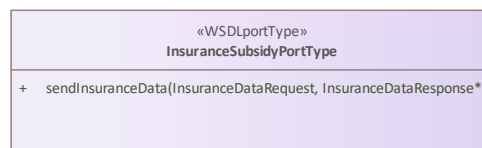


Figure 3: PortTypes

1.1.6. InsuranceSubsidyPortType

Interface «WSDLportType» in package 'PortTypes'

OPERATIONS
 sendInsuranceData (InsuranceDataRequest : InsuranceDataRequest , InsuranceDataResponse : InsuranceDataResponse) : Public Behavior:

1.1.7. Bindings

Package in package 'WSDL Insurance Subsidy'

1.1.7.1. Bindings diagram

Class diagram in package 'Bindings'

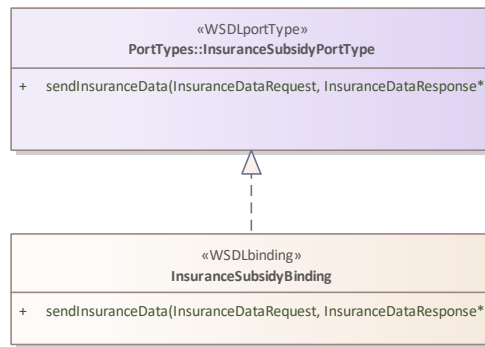


Figure 4: Bindings

1.1.8. InsuranceSubsidyBinding

Class «WSDLbinding» in package 'Bindings'

OPERATIONS	
	sendInsuranceData (InsuranceDataRequest : InsuranceDataRequest , InsuranceDataResponse : InsuranceDataResponse) : Public
Behavior:	

1.1.9. Services

Package in package 'WSDL Insurance Subsidy'

1.1.9.1. InsuranceSubsidyService diagram

Class diagram in package 'Services'

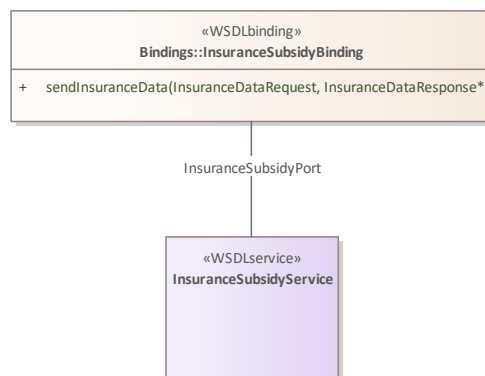


Figure 5: InsuranceSubsidyService

1.1.10. InsuranceSubsidyService

Interface «WSDLservice» in package 'Services'

WSDL File for InsuranceSubsidyService

1.2. XSD Insurance Subsidy

Package «XSDschema» in package 'Interface'

Insurance subsidy XSD schema

1.2.1. Insurance_subsidy_v1.0 diagram

Class diagram in package 'XSD Insurance Subsidy'

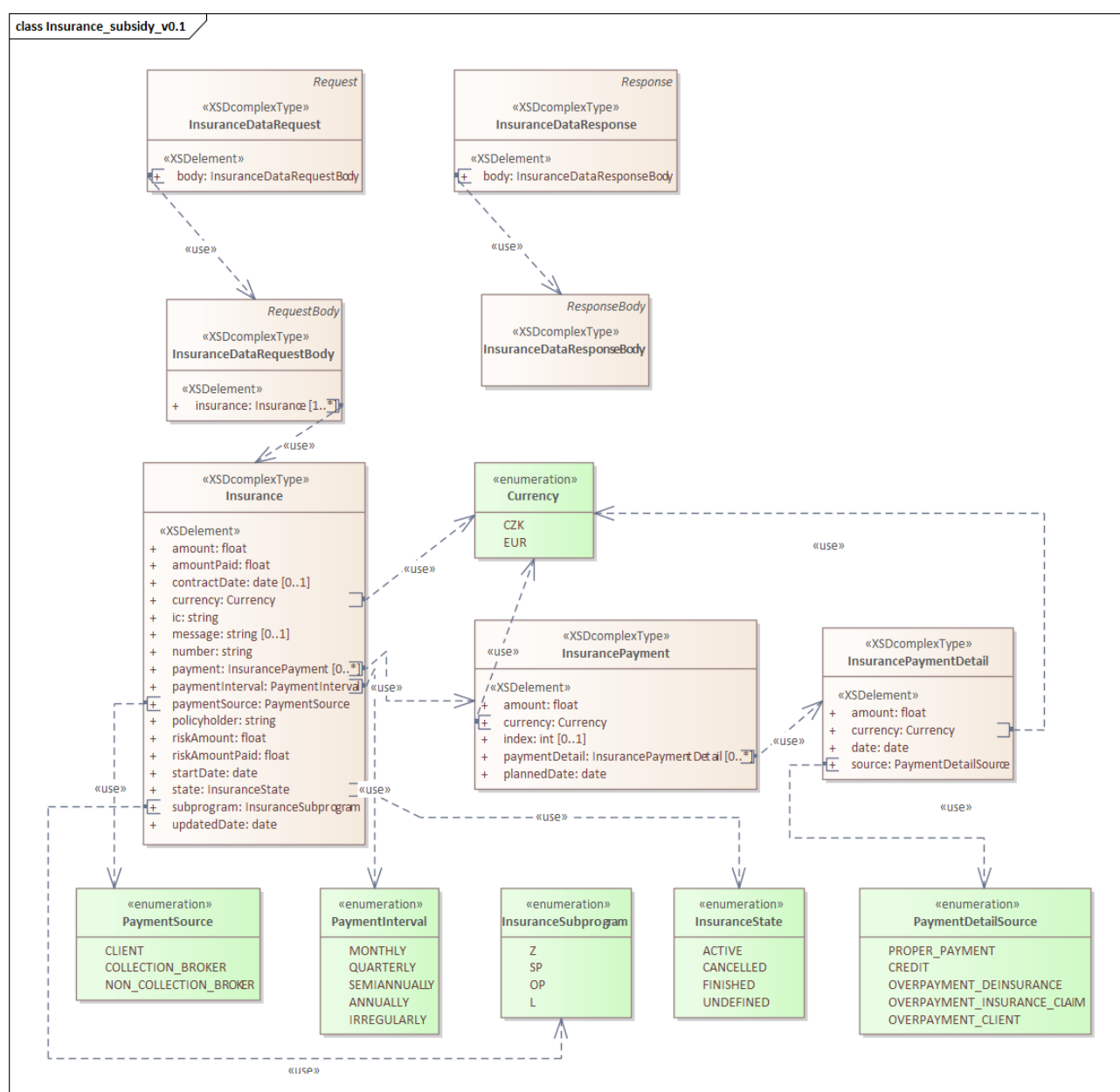


Figure 6: Insurance_subsidy_v1.0

1.2.2. Insurance

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Object containing insurance information, like number, contract date, etc.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
amount	float		The amount of the contract
amountPaid	float		The amount paid in total
contractDate	date	[0..1]	The date the contract was signed
currency	Currency		The currency of the contract
ic	string		The person/company identification number
message	string	[0..1]	Optional message, for example to describe change of state, or why there is an update
number	string		Insurance number
payment	InsurancePayment	[0..*]	
paymentInterval	PaymentInterval		The payment interval for the contract
paymentSource	PaymentSource		The source of the payments
policyholder	string		The person/company who owns the insurance policy
riskAmount	float		The risk amount of the contract
riskAmountPaid	float		The risk amount paid in total
startDate	date		The date the contract is effective
state	InsuranceState		State of this insurance
subprogram	InsuranceSubprogram		Insurance subprogram
updatedAt	date		The date the contract was updated

1.2.3. InsuranceDataRequest

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Insurance data request

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
body	InsuranceDataRequestBody		

1.2.4. InsuranceDataRequestBody

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Insurance data request body

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 insurance	Insurance	[1..*]	

1.2.5. InsuranceDataResponse

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Insurance data response

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 body	InsuranceDataResponseBody		

1.2.6. InsuranceDataResponseBody

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Insurance data response body

1.2.7. InsurancePayment

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Object containing planned payments information. It can consist of multiple payments which are stored within paymentDetail. If there is no such payment detail, the planned payment is not paid.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 amount	float		The planned payment amount
 currency	Currency		The planned payment currency
 index	int	[0..1]	The optional payment identification
 paymentDetail	InsurancePaymentDetail	[0..*]	The actual payments mapped to this planned payment
 plannedDate	date		The planned payment date

1.2.8. InsurancePaymentDetail

Class «XSDcomplexType» in package 'XSD Insurance Subsidy'

Object containing real payment information.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
amount	float		The amount paid
currency	Currency		The currency of the amount paid
date	date		The date of the amount paid
source	PaymentDetailSource		The source of the amount paid

1.2.9. Currency

Enumeration in package 'XSD Insurance Subsidy'

Supported currencies for insurance subsidies

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
CZK	string		
EUR	string		

1.2.10. InsuranceState

Enumeration in package 'XSD Insurance Subsidy'

State of insurance

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
ACTIVE	string		Insurance is in active state
CANCELLED	string		Insurance was cancelled
FINISHED	string		Insurance was finished
UNDEFINED	string		Unable to determine insurance state or none of above can be applied

1.2.11. InsuranceSubprogram

Enumeration in package 'XSD Insurance Subsidy'

Supported subprograms for insurance subsidies

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
◆ Z	string		Animals
◆ SP	string		Special crops
◆ OP	string		Other crops
◆ L	string		Forests

1.2.12. PaymentDetailSource

Enumeration in package 'XSD Insurance Subsidy'

Supported payment sources for insurance subsidies.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
◆ PROPER_PAYMENT	string		Proper payment
◆ CREDIT	string		Credit from the insurance claim
◆ OVERPAYMENT_DEINSURANCE	string		Overpayment - deinsurance
◆ OVERPAYMENT_INSURANCE_CLAIM	string		Overpayment - insurance claim
◆ OVERPAYMENT_CLIENT	string		Overpayment - client

1.2.13. PaymentInterval

Enumeration in package 'XSD Insurance Subsidy'

Supported payment intervals for insurance subsidies.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
◆ MONTHLY	string		
◆ QUARTERLY	string		
◆ SEMIANNUALLY	string		
◆ ANNUALLY	string		
◆ IRREGULARLY	string		Any other interval, e.g. 3 times a year

1.2.14. PaymentSource

Enumeration in package 'XSD Insurance Subsidy'

Supported payment sources for insurance subsidies.

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
CLIENT	string		Client
COLLECTION_BROKER	string		Collection broker
NON_COLLECTION_BROKER	string		Non collection broker

1.3. XSD Common

Package «XSDschema» in package 'Interface'

Common PGRLF XSD schema

1.3.1. Common_v1.0 diagram

Class diagram in package 'XSD Common'

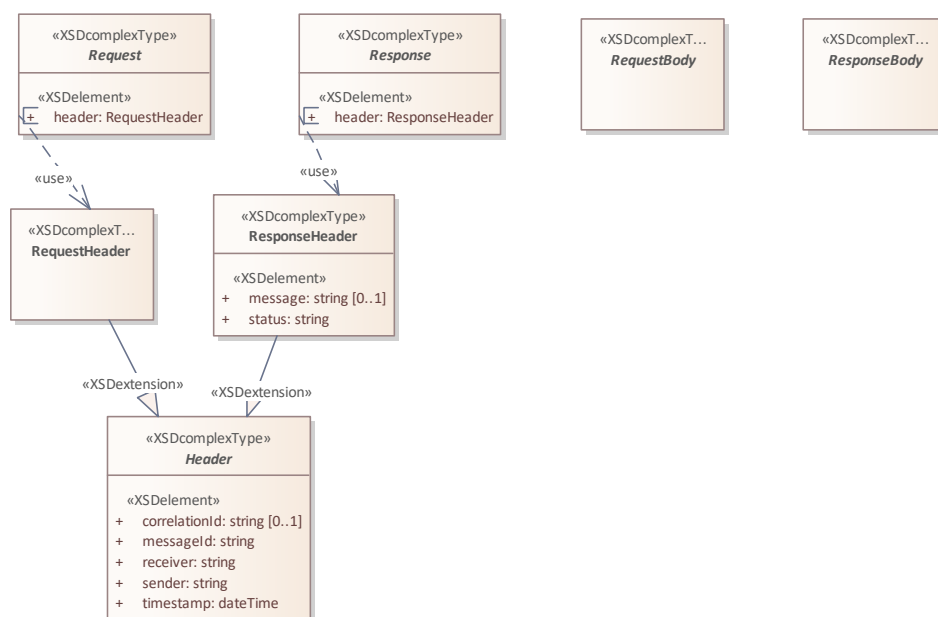


Figure 7: Common_v1.0

1.3.2. Header

Class «XSDcomplexType» in package 'XSD Common'

Common header parent

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
correlationId	string	[0..1]	Identification of related messages

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 messageld	string		Unique message identification
 receiver	string		Identification to whom the message is send to
 sender	string		Identification from whom the message is send from
 timestamp	dateTime		Timestamp when message was generated/created

1.3.3. Request

Class «XSDcomplexType» in package 'XSD Common'

Common request parent

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 header	RequestHeader		

1.3.4. RequestBody

Class «XSDcomplexType» in package 'XSD Common'

Common request body parent

1.3.5. RequestHeader

Class «XSDcomplexType» in package 'XSD Common'

Request header

1.3.6. Response

Class «XSDcomplexType» in package 'XSD Common'

Common response parent

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 header	ResponseHeader		

1.3.7. ResponseBody

Class «XSDcomplexType» in package 'XSD Common'

Common response body parent

1.3.8. ResponseHeader

Class «XSDcomplexType» in package 'XSD Common'

Response header

ATTRIBUTE	TYPE	MULTIPLICITY	NOTE
 message	string	[0..1]	Message containing relevant information based on status code
 status	string		Status code. Will be defined during implementation

2. Security

Package in package 'Insurance subsidy'

2.1. SSL/TLS communication

ArchitecturalRequirement «ArchitecturalRequirement» in package 'Security'

All communication will be done over https using at least TLS 1.2.

2.2. IP restrictions

ArchitecturalRequirement «ArchitecturalRequirement» in package 'Security'

Communication will be restricted to selected remote IP addresses for each connected client.

2.3. Rate Limiting

ArchitecturalRequirement «ArchitecturalRequirement» in package 'Security'

Rate limiting will be set to 5 requests per second.

2.4. Authentication

ArchitecturalRequirement «ArchitecturalRequirement» in package 'Security'

Access to the SOAP web service will be authenticated and it will be possible to use one of the following authentication methods:

1. OAuth2 with client certificate authentication - Preferred form of authentication
2. Client Certificate authentication
3. API Key authentication - fallback method, if client is not able to authenticate using above methods
4. Basic Authentication - fallback method, if client is not able to authenticate using above methods

3. Error handling

Package in package 'Insurance subsidy'

All business errors will be sent back using Response.header.status and Response.header.message elements.

All other errors will be sent back as SoapFaults or http errors.

4. Implementation

Package in package 'Insurance subsidy'

4.1. Implementation diagram

Interaction diagram in package 'Implementation'

Sequence diagram is only to show how the API should be called.

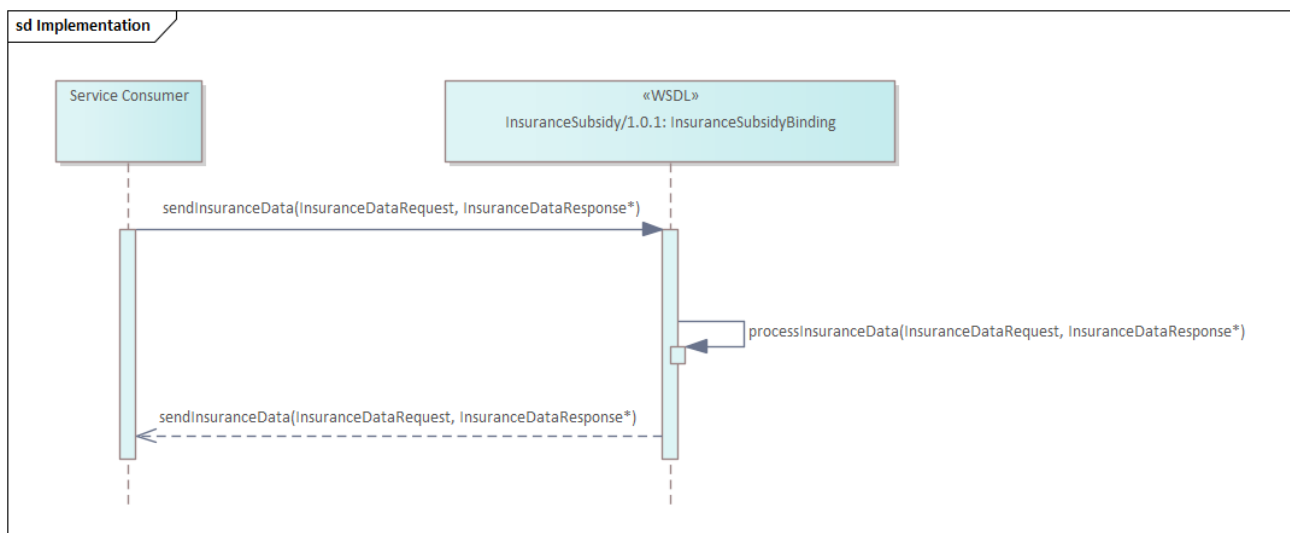


Figure 8: Implementation