

Change protocol of the XSD standards in question

Change protocol from `generallInvoiceRequest440` to `generallInvoiceRequest450`

ID	Change description
1	Any usage of the German name "ChiropraktikerIn" (e.g. in a printout of the role) is changed to "ChiropraktorIn". The XSD schema is not targeted by this issue but the printTemplate – cf there.
3	All Tarmed-like services whose quantity is calculated by the "Divisor Method" are under-determined regarding a possible deconvolution. Therefore, an additional optional element with a single attribute @group_size is defined under the Tarmed service.
4	The new type of ESR with QR code valid from mid-2018 is included as additional element esrQR . The element esr5Type has been deleted due to the expiration of the standard The explicit creditor's address esr9Type/creditor and esrRedType/creditor , respectively was included due to naming scheme restrictions enforced by the Anti-Money Laundering Act, Art. 95, 98 FC.
7	The attributes //*lawType@contract_number were deleted without a replacement.
8	The constraining facet of all tax point attributes //@unit_mt , //@unit_tt , //@unit are relaxed thus allowing negative values as well
10	The card@expiry_date attribute of the patient card element is made optional.
13	The pattern for the IBAN attribute esrRed@iban is corrected as to allow characters in the account number. Furthermore, the pattern is extended to include Switzerland and Liechtenstein nonetheless. The final pattern is: <code><pattern value="(LI CH)[0-9]{7}[0-9A-Z]{12}" /></code>
16 36 46 53	The allowed type of documents is reduced to PDF, jpeg, and png by attaching a pattern to the mime type attribute documentType@mimeType . The final pattern is: <code><pattern value="(application/pdf image/jpeg image/png)" /></code>
17	The location and content of the balance container <code>balanceType</code> The <code>balanceType</code> container is split up into two tiers dependent structures, newly located in garantType/balanceTGType and payantType/balanceTPTYPE , respectively. The reason for the splitting is to delete the prepaid amount in the TP case balanceTPTYPE@amount_prepaid , since in general there is no such advanced payment of that debtor.
18	More precise wording of the processing attributes processing@print_at_intermediate and processing@print_copy_to_guarantor . The later one is a rename from <code>processing@print_patient_copy</code> .
20	The list of allowed data format of the attributes //*recordTarmedType@provider_id , //*recordTarmedType@responsible_id //*recordServiceType@provider_id , //*recordServiceType@responsible_id of any service is restricted to type GTIN.

21	All epoch timestamp attributes //@request_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
25	The attribute treatmentType@gestation_week13 has been added to allow for the definition of the 13 th gestation week. This week is requested by Article 105 of the Swiss Federal Act on Health Insurance (KVG) and is set by gynecologists once only in the first invoice with treatment type maternity .
26	The principle treatment type is re-established as a TOKEN set attribute treatment@treatment . The allowed set is {ambulatory stationary}.
29	The attribute payload@if_storno_followup_invoice_probable was included allowing to give a hint whether a follow-up invoice is likely been generated and sent to the debtor. The attribute bears a semantic relevance solely in case of a storno process. All other processes are not targeted by this attribute at all.
30	The concept of a credit advice is understood and adopted poorly, and is thus eliminated from the standard. Therefore, the attribute payload@credit_advice is deleted
33	The typed service structure is changed into an untyped structure such that there are 2 distinct types of services service and service_ex , respectively. The structure of service is the structure of a simple tariff basically consisting of code, name, tp, tpv, amount etc. On the other hand, service_ex has a splitted nature –a medical and technical part– like the Tarmed tariff. Furthermore, the structure of service_ex is augmented by additional data like medical_role, billing_role etc. such that all data of the former record_tarmed can be mapped without loss.
35	Preciser wording for the attributes //recordTarmedType@session, //recordServiceType@session regarding the session concept and the value space in its absence.
39	The attribute xtraStationaryType@do_cost_assessment was moved to the hospitalMCDRequest due to a request of the Federal Data Protection and Information Commissioner (FDPIC).
41	The debtor address construct debtorAddressType is included as the antonym of the biller. The debtor receives an invoice/reminder and is the debtor in the invoice/reminder process. The inclusion of that structure is a semantic clarification since prior standards did not have a named endpoint of the invoice/reminder process.
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.
50	Preciser wording of the reminder text attribute reminder@reminder_text as being formed solely as ASCII text.
51	Change in the usage and structure of a Datamatrix code on invoices/reminders. In Tiers Payant (TP) cases the Datamatrix code is no longer applied, because the location on the invoice is occupied by the QR code. In Tiers Garant (TG) cases the application of a Datamatrix code is optional and on invoices only (“Rückerstattungsbeleg”). The size is changed to 40x40 (thus allowing for a total of 169 characters) and the content is expanded by a list of mod10 check digits of the services amounts, and lastly terminated by the # symbol. As documented in the prior standard, the Datamatrix content is either trimmed to or expanded by ‘0’ up to the maximal number of 169 characters.

56	<p>The attributes //recordServiceType@validate and //recordTarmedType@validate of any service element were deleted.</p> <p>The reason is that validators are unstandardized and vendor specific in the first place. Furthermore, there exist tariffs without a known validator implementation. Lastly, there is often a misinterpretation of the attribute as being “correct” vs “incorrect” instead making a statement about “running through a validator”.</p>
58	The viewer attribute documentType@viewer was deleted, since there is no usage for that information.
59	<p>An instruction list //processingType/instructions/instruction consisting of simple token/value pairs was added by demand of the cantons.</p> <p>The structure is a simple instructions container that holds an unbounded number of instruction. The latter consisting of 2 string attributes of 255 length instruction@token, instruction@value.</p>
60	The element validations and all related sub elements located in the processing element have been deleted due to a non-existent business case.

Change protocol from **generalInvoiceResponse440** to **generalInvoiceResponse450**

ID	Change description
4	<p>The new type of ESR with QR code valid from mid-2018 is included as additional element esrQR.</p> <p>The element esr5Type has been deleted due to the expiration of the standard</p> <p>The explicit creditor’s address esr9Type/creditor and esrRedType/creditor, respectively was included due to naming scheme restrictions enforced by the Anti-Money Laundering Act, Art. 95, 98 FC.</p> <p>The element reimbursement/creditor was deleted since the creditor element is moved into the different ESR elements (cf. above).</p>
6	Inclusion of a documents/document structure into the standard, that allows for including a variable quantity of documents of type (PDF jpeg png) as Base64 coded octets.
13	<p>The pattern for the IBAN attribute esrRed@iban is corrected as to allow characters in the account number. Furthermore, the pattern is extended to include Switzerland and Liechtenstein nonetheless.</p> <p>The final pattern is: <code><pattern value="(L CH)[0-9]{7}[0-9A-Z]{12}" /></code></p>
21	All epoch timestamp attributes //@request_timestamp and //@response_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
30	The concept of a credit advice is understood and adopted poorly, and is thus eliminated from the standard. Therefore, the attribute payload@credit_advice is deleted
41	As a measure of identification of the various parties the request’s debtor is included by its GLN body/debitor .
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.

Change from generalFormRequest430 to generalFormRequest450

ID	Change description
6	Inclusion of a documents/document structure into the standard that allows for including a variable quantity of documents of type (PDF jpeg png) as Base64 coded octets.
21	All epoch timestamp attributes //@request_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.
58	The viewer attribute pdfFileType@viewer was deleted, since there is no usage for that information.

Change protocol from generalFormRequest430 to generalFormRequest450

ID	Change description
6	Inclusion of a documents/document structure into the standard, that allows for including a variable quantity of documents of type (PDF jpeg png) as Base64 coded octets.
21	All epoch timestamp attributes //@request_timestamp and //@response_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.

Change protocol from generalNotification440 to generalNotification450

ID	Change description
6	<p>Inclusion of a documents/document structure into the standard that allows for including a variable quantity of documents of type (PDF jpeg png) as Base64 coded octets.</p> <p>The element body/pdf_file is deleted in favor of the above documents/document structure.</p>
21	<p>All epoch timestamp attributes //@request_timestamp and //@timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.</p>
22	<p>The default value of the attribute /notification@is_confidential is changed to "false" in accordance with article 42 (5) KVG</p>
47	<p>A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.</p>

Change protocol from hospitalMCDRequest440 to hospitalMCDRequest450

ID	Change description
16 36 46 53	The allowed type of documents is reduced to PDF, jpeg, and png by attaching a pattern to the mime type attribute documentType@mimeType . The final pattern is: <pattern value=" (application/pdf image/jpeg image/png)"/>
21	All epoch timestamp attributes //@request_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
22	The default value of the attribute /request@is_confidential is changed to "false" in accordance with article 42 (5) KVG
39	The attribute grouperType@do_cost_assessment is moved from the generalInvoiceRequest to the hospitalMCDRequest by demand of the Federal Data Protection and Information Commissioner (FDPIC). All elements holding BfS statistic codes grouperType/bfs_* , namely bfs_admission_type , bfs_residence_before_admission , bfs_decision_for_discharge , bfs_residence_after_discharge , have been deleted to resolve a data redundancy with generalInvoiceRequest. The element body/record_drg was deleted and its former sub-element record_drg/grouperType is newly attached to the body element with a cardinality of 1. The Federal Data Protection and Information Commissioner (FDPIC) requested this remodeling to be conformant with in accordance with Article 42 (5) of the Swiss Federal Act on Health Insurance (KVG).
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.
58	The viewer attribute documentType@viewer was deleted, since there is no usage for that information.

Change protocol from hospitalMCDResponse440 to hospitalMCDResponse450

ID	Change description
6	Inclusion of a documents/document structure to include into the standard that allows including a variable quantity of documents of type (PDF jpeg png) as Base64 coded octets.
21	All epoch timestamp attributes //@request_timestamp and //@response_timestamp have been refined regarding the allowed data space. The allowed value space correlates with a date between 1.1.2015 and 31.12.2030.
47	A new attribute documentType@title has been included that basically serves as indicator for the semantic content of the file.

Change protocol from hospitalMCDRequest450 to hospitalMCDRequest451

ID	Change description
1	Inclusion of an optional grouperType/medication element, that allows inputting an unbounded set of medication relevant data. This update became necessary due to last minute changes of swissDRG for 2018.
2	A semantic renaming of the term "EAN" (European Article Number) by the term "GLN" (Global Location Number) was carried out throughout the schema file.

Change protocol from hospitalMCDResponses450 to hospitalMCDResponse451

ID	Change description
1	A semantic renaming of the term "EAN" (European Article Number) by the term "GLN" (Global Location Number) was carried out throughout the schema file.