



Release Notes SHIP 1.6.0



SHIP

SWISS HEALTH INFORMATION PROCESSING

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1 SHIP Release Notes SHIP 1.6.0

The focus of SHIP Release 1.6.0 are technical, quality improvements and the implementation of the new eCH Standards.

The quality improvements are based on feedback from operations:

- **Case synchronicity:** Functionality extension to be able to synchronize cases across connectors.
- **Management of certificates:** Easier creation of certificates and handling of the keystore. Notification mechanism before a certificate expires.
- **Extension SHIP Connector message search:** Message search extended by search options with case number and AHV number.
- **hardening of the systems**

The **SHIP Release 1.6.0** is released on Thursday 12, Mai 2022 with the focus on eCH improvements

- **eCH-0236 V2.0.0 "Spital Stationär"** TP01-05
- **eCH-0253 V1.0.0 "Spital ambulanz"** TP01,TP04 and TP05
- eCH-0237 V1.1 Spitex. Implementationsergänzungen

Please be aware. The Feedback of the "öffentliche Konsultation" from eCH-0236 V2.0.0 and eCH-0253 will be part of SHIP Release 1.7.0.

1.1 Changes of Connector release zip artifact

This release has added newly OpenAPI based HTML documentations for the sender endpoint of the connector. These documentations will be included automatically inside the release zip file.

1.2 Changes of Message Forwarding release ZIP artifact

The folder and file structure of the Message Forwarding release ZIP artifact has changed to ease the setup of this component.

The new structure for the Message Forwarding Component is as follows:

ship-message-forwarding-<version>.zip

- application.properties
- run-ship-message-forwarding.bat
- run-ship-message-forwarding.sh
- ship-message-forwarding.exe
- ship-message-forwarding.jar
- ship-message-forwarding.service
- ship-message-forwarding.xml

1.3 Changes in Web Services

i Note that there are some additions compared to the 1.6.0-beta-1 release notes. The additions are listed at the end of the table.

Component	State	Reference	Endpoint	Description
Sender	Change Announcement	Change SHIP3-2632	/api/1/0/version	With version 1.7 the property "buildTime" will be removed from the response of this service because it provides no additional value to the existing "buildVersion".
Sender	Deprecated	Change SHIP3-1995	/api/1/0/validate/ validParticipantCareproviderIdCombination/{participantId}/{careproviderId}/ {timestamp} /api/2/0/validate/ validParticipantCareproviderIdCombination/{participantId}/{careproviderId}/ {timestamp}	With version 1.7, the REST service / validParticipantCareproviderIdCombination will be removed without replacement!
Sender	Deprecated	Change DEVSHIP-2982	GET,POST /api/1/0/usercontext	With version 1.7, the REST service /usercontext will be removed without replacement. The information that the service /usercontext returned (namely CONNECTOR_VERSION and BUSINESS_RULES_VERSION) will be provided by the newly introduced /info service. But be aware that the format of the response will change. The POST method of the /usercontext service will be removed without replacement! It will not be possible anymore to "store" some arbitrary "usercontext" data in the Connector. The table USER_CONTEXT will be removed as well, all data that was stored to this table will be deleted by this removal.

Component	State	Reference	Endpoint	Description
Sender Receiver	Deprecated	Change DEVSH IP-298 2	GET (Sender) /api/1/0/ping GET (Receiver) /api/v1/c2c/ping	As with version 1.6 the v1 /ping services return the same data as the /usercontext service. With version 1.7 a v2 version of the ping services will be introduced which just return 'OK' (200) or an error if the connector is not reachable. See below.
Sender Receiver	Announcement	Change DEVSH IP-298 2	GET (Sender) /api/2/0/ping GET (Receiver) /api/v2/c2c/ping	With version 1.7 v2 ping services will be introduced which will just return OK in the payload.
Sender	New	Change DEVSH IP-298 2	GET /api/1/0/info	With version 1.7, a new /info Service will be introduced, which accounts for the data returned by the former /usercontext service. Be aware that the response format will be changed as follows: <pre> <infos> <info><key>CONNECTOR_ VERSION</ key><value>value1</ value></info> <info><key>BUSINESS_R ULES_VERSION</ key><value>value2</ value></info> ... maybe more info elements followed by future releases ... </infos> </pre>

Component	State	Reference	Endpoint	Description
Sender	New	Change DEVSH IP-3300	GET /api/1/0/certificates/{fingerprint}	<p>With version 1.6 a new REST Service for querying participant certificates is introduced.</p> <p>GET /api/1/0/certificates lists all the certificates</p> <p>GET /api/1/0/certificates?participantGln={participantGln} lists the certificate of the given participant GLN.</p> <p>GET /api/1/0/certificates/{fingerprint} shows the certificate with the given fingerprint</p> <p>See the swagger documentation for more detailed information.</p>
Sender	Deprecated	Change DEVSH IP-2982	GET /api/1/0/actors/{actorId} GET /api/1/0/actors GET /api/1/0/actors/ofParticipant	<p>With version 1.6 the actor API of version 1/0 becomes deprecated. It is replaced by actor API version 2/0. For more information about version 2/0 see below.</p>
Sender	New	Change DEVSH IP-2982	GET /api/2/0/actors/{actorUuid} GET /api/2/0/actors GET /api/2/0/actors/ofParticipant	<p>Actor API version 2/0 has following changes compared to version 1/0</p> <p>Request:</p> <ul style="list-style-type: none"> The request parameter 'actorId' is changed to 'actorUuid' The request parameter 'gln' is changed to 'participantGln' A new request parameter 'actorGln' is added. <p>Response</p> <ul style="list-style-type: none"> Field 'actorId' is changed to 'actorUuid' Field 'participantId' will be removed. <ul style="list-style-type: none"> If you need the GLN of a participant providing the actorUuid, use the /participants Service

Component	State	Reference	Endpoint	Description
				<ul style="list-style-type: none"> Field 'gln' is added which represents the GLN of the actor. <p>Deprecated: BusinessId</p> <ul style="list-style-type: none"> The 'businessId' is still present in the request arguments and the response payload but it's deprecated as 'businessId' will be removed in Version 1.7. See section "Decommissioning of Business ID". <p>For further information please refer to the Swagger API documentation.</p>
Sender	Change Announcement	Change DEVSH IP-298 2	GET /api/2/0/participants	<p>With version 1.7, the request parameters will be changed as follows:</p> <ul style="list-style-type: none"> Request Parameter 'actorId' will be changed to 'actorUuid' Request Parameter 'businessId' will be removed. See section "Decommissioning of Business ID". <p>With version 1.7, the output structure will be changed as follows:</p> <ul style="list-style-type: none"> Field 'centralServicesId' will be changed to 'participantUuid' Field 'canton' will be removed without replacement
Sender	Change Announcement	Change DEVSH IP-298 2	GET /api/2/0/participants/{participantGln}	<p>With version 1.7, the request parameters will be changed as follows:</p> <ul style="list-style-type: none"> Request Parameter 'actorId' will be changed to 'actorUuid' <p>With version 1.7, the output structure will be changed as follows:</p>

Component	State	Reference	Endpoint	Description
				<ul style="list-style-type: none"> Field 'centralServicesId' will be changed to 'participantUuid' Field 'canton' will be removed without replacement
Sender	Change Announcement	Change DEVSH IP-298 2	GET /api/1/0/person	<p>With version 1.7, the request parameters will be changed as follows:</p> <ul style="list-style-type: none"> Request Parameter 'participantId' will be changed to 'participantGln'
Sender	Change Announcement	Change DEVSH IP-298 2	POST /api/1/0/persons	<p>With version 1.7, the request parameters will be changed as follows:</p> <ul style="list-style-type: none"> Request Parameter 'participantId' will be changed to 'participantGln'
Sender	Change Announcement	Change DEVSH IP-298 2	GET /api/1/0/insurance	<p>With version 1.7, the request parameters will be changed as follows:</p> <ul style="list-style-type: none"> Request Parameter 'participantId' will be changed to 'participantGln'
Sender	Change Announcement	Change DEVSH IP-298 2	GET /api/1/0/protocol/{containerId}	<p>With version 1.7, the output structure will be changed as follows:</p> <ul style="list-style-type: none"> Each entry of the element outgoingMessagesList contains a nested element acknowledgedMessageAttachmentList. This is always empty and represented as follows: <ul style="list-style-type: none"> <acknowledgedMessageAttachmentList/> This element acknowledgedMessageAttachmentList will be removed with version 1.7

Component	State	Reference	Endpoint	Description
Sender	Deprecated	Change DEVSH IP-313 1	GET /api/1/0/valueset/forelement/{messageType}/{shipVersion}/{value}	With version 1.7 this service must not be used anymore.
Sender	Deprecated	Change DEVSH IP-298 2	GET /api/1/0/features	With version 1.7, the REST service /features will be removed without replacement.
Sender / Receiver	Change Announcement	Change DEVSH IP-298 2	ALL	With version 1.7, an error code will be changed as follows: TENANT_NOT_CONFIGURED will be changed to LOCAL_PARTICIPANT_NOT_CONFIGURED
Sender	New	Change DEVSH IP-284 1	POST /api/1/0/actions/restore	With version 1.6 a new service to restore lost messages in a conversation with the help of a partnering connector is introduced. The restore is started by posting a corresponding request to the local sender API.
Receiver	New	Change DEVSH IP-277 8	GET /api/v1/c2c/messages/{conversationId} GET /api/v1/c2c/messages/{conversationId}/{containerId}isUniqueMessageId	With version 1.6 a new service to restore lost messages in a conversation with the help of a partnering connector is introduced. These endpoints must be accessible from the partnering connector to help it to retrieve lost messages. This endpoint is internally authenticated (the requesting connector must prove its authenticity by providing a secured token) and authorized (messages are only sent back if they were exchanged with the authenticated connector)

Component	State	Reference	Endpoint	Description
Sender	New		GET /api/1/0/validate/isUniqueMessageId/{conversationId}/{messageId}/{messageType}/{subprocessId} GET /api/2/0/validate/isUniqueMessageId/{conversationId}/{messageId}/{messageType}/{subprocessId}	New Internal service for message validation.
Sender	Deleted		GET /api/1/0/validate/validParticipantCostbearerIdCombination/{participantId}/{costbearerId}/{timestamp} GET /api/2/0/validate/validParticipantCostbearerIdCombination/{participantId}/{costbearerId}/{timestamp}	Deleted deprecated Internal service for message validation.
Sender	Deleted		GET /api/1/0/validate/validCostbearer/{costBearerId}/{role}/{timestamp} GET /api/2/0/validate/validCostbearer/{costBearerId}/{role}/{timestamp}	Deleted deprecated Internal service for message validation.
Sender	Deleted		GET /api/1/0/validate/validCareprovider/{careproviderId}/{participantRole}/{timestamp} GET /api/2/0/validate/validCareprovider/{careproviderId}/{participantRole}/{timestamp}	Deleted deprecated Internal service for message validation.
Sender	Deleted		GET /api/1/0/validate/endpointInfo/{participantId}/{timestamp} GET /api/2/0/validate/endpointInfo/{participantId}/{timestamp}	Deleted deprecated Internal service for message validation.
Sender	Deleted		GET /api/1/0/validate/checkvalueset/{valuesetName}/{dataValue}/{dataParam}/{timestamp} GET /api/2/0/validate/checkvalueset/{valuesetName}/{dataValue}/{dataParam}/{timestamp} GET /api/1/0/validate/checkvalueset/{valuesetName}/{dataValue}/{timestamp} GET /api/2/0/validate/checkvalueset/{valuesetName}/{dataValue}/{timestamp}	Deleted deprecated Internal service for message validation.

Component	State	Reference	Endpoint	Description
Sender	New		DELETE /api/1/0/protocol/before/{timestamp}	Delete All Messages and attachments before the specified timestamp. This service was transferred from the Admin-UI-API to the Sender-API
Sender	Deleted		GET /api/1/0/participants/{participantId} GET /api/1/0/participants/costbearer/{costbearerId} GET /api/1/0/participants/careProvider/{careproviderId} GET /api/1/0/participants/	The deprecated v1 participant service has been removed.

1.4 Changes in Database

The Connector shipped with 1.6 has major database changes, introducing additional table relations, renaming existing indices, constraints and foreign keys.

The migration has been tested thoroughly, however, please test the migration on your staging systems to avoid any outages during the upgrade, particularly if manual intervention has been done to the Connector's database which is not recommended.

Note, that following tables are going to be dropped:

- PARTICIPANT_CARE_PROVIDER,
- PARTICIPANT_COSTBEARER

1.5 AdminUI default user

If this release is the first SHIP connector that is installed, a default *sysadmin* user will be created with a default password *sysadmin* for user to login to the AdminUI.

This default password should be changed immediately. Use the following SQL statement to do that (password encoding for the sysadmin user is SHA1 encoded):

Changing password for the sysadmin user

```
UPDATE SHIP_USER SET PASSWORD = 'SHA1-encoded-password-here' WHERE USERNAME = 'sysadmin';
```

1.6 Decommissioning of Valuesets 'actor' and 'careprovider'

Note, that for SHIP Release 1.7, the **Valuesets 'actor' and 'careprovider' are going to be removed!** Those valuesets are currently accessible by the '/api/1/0/valuesets' REST services.

If you need this REST services for accessing 'actor' and 'careprovider' valuesets, please migrate to the '/api/2/0/actors' REST services which can serve the same data.

This change is necessary to avoid data redundancies.

1.7 Changes in Application Properties

Please refer to Note 1 of the Upgrade Notes, if you have configured a tenant keystore or domain for generating keystores over the Admin UI.

Please refer to Note 2 of the Upgrade Notes, if your Sender API is SSL/TLS encrypted.

Please refer to Note 4 of the Upgrade Notes if you need to use LDAP in the Spring Actuator Health Check.

1.8 Trigger Database migration only without starting the Connector

The release features a new startup parameter option which will allow administrator to start a migration process of database schemas only. The database migration can be therefore decoupled from mandatory startup of the sender and receiver endpoints of the connector application.

In order to start database migration only, the spring boot application should be given the parameter **--dbMigrationOnly**. The application will run the necessary liquibase database migration changelogs, after which the application will be shutdown when migration has finished.

In order to start up the connector as usually, i.e. including the obligatory liquibase migration (if it has not yet been run), just start the spring boot application without given the above command line argument to the program.

1.9 Decommissioning of Business ID

Announcement for Deprecation

As with Connector release 1.7 the Business ID will be removed from the Connector's database, Valuesets and APIs and eventually also from the Central Service where the Business ID originates from. The Business ID is a legacy construct that was used to identify an actor. It is also known as Cpld (for Care Providers) or Cbld (for Cost Bearers) and has a format of CPxxxxxx or CBxxx. Today, Actors are uniquely identified by the Actor's UUID and the continuation of maintaining a Business ID is not required anymore. Please reference the section "Changes in WebService" to see which service will be affected.

1.10 Sender API Protection and integrated Authorization Server

It is important to secure the Sender API to avoid unauthorized access!

In addition, unlike the Receiver API, the Sender API must not be accessible from the Internet.

There are different options to secure the Sender API like mutual SSL authentication, by a Firewall or, starting from SHIP Version 1.6 by OAuth. Please evaluate what best fits your needs.

If you are interested in enabling the Sender API protection by OAuth, you find all necessary information in Note 3 of the Upgrade Notes.

1.11 Restore of broken conversations

The endpoints GET /api/v1/c2c/messages/{conversationId} and GET /api/v1/c2c/messages/{conversationId}/{containerId} must be accessible from the partnering connector to help it to retrieve lost messages.

1.12 Known Issues

There are a few known issues regarding the newly introduced beta versions of eCH-0236 V2.0.0 and eCH-0253 V1.0.0:

- Actor specific value sets: The business rules allow for all actuator types values aller permissible value sets without. At the same time, the RAC also displays the values of all value sets for selection.
- The business rules are not yet able to find messages that are in other conversations. For example, for 04_010 it is not possible to check whether there is a positively answered 01_140.
- The RAC cannot assign 04_060 and 04_070 to the already existing conversation between cost bearer and hospital and opens a new conversation per subprocess.
- The RAC must now be able to distinguish what type of actuator is active in order to judge which messages may be displayed as "Possible Actions" (e.g. no 01_04_040 for the KVG).
- The RAC must be able to recognize which standard is used for the Base Conversation in order to judge which messages may be displayed as "Possible Actions" (e.g. do not display 02_*** anymore if we are in eCH-0236 Case).

1.13 Ticket Overview

1.13.1 SHIP Connector

Besides the changes mentioned in the introduction the following customer demand was implemented:

- CSC-21882: AdminUI Erweiterung mit AHV und Fallnummer

1.13.2 SHIP RAC

Bugfixes and Updates

1.13.3 SHIP Business Rules

- Beta version for eCH-0236 V2 and related changes in XSDs of eCH-0234 and eCH-0235
- Beta version for eCH-0253 and related changes in XSDs of eCH-0234 and eCH-023
- eCH-0237: services can be defined in freetext field (services 10999 and 10099)
- eCH-0237: clarifyingPerson is optional
- eCH-0237: "Anordnung (Attachment)" as new entry für requiredData2 in SHIP_M_04_02_040

1.13.4 SHIP Message Forwarding (Automation Component)

No changes

1.13.5 SHIP RAC UI Config

Changes according to the changes of the business rules

1.14 SHIP Valuesets

Following Changes are planned for 12. May 2022

Valueset	Value	ValidTo	Beschreibung
treatmentReason	prevention	2022-05-12	Prävention
treatmentReason	unknown	2022-05-12	unbekannt

repetition	repetitionRevocaton	2022-08-12	Widerruf
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Valueset	Code	Beschreibung	Valid_from
requiredData2	requiredData206	Ärztliche Anordnung (Attachment)	12.08.2022
repetition	repetitionReminder	Erinnerung zur Beantwortung	12.05.2022

1.14.1 Currently valid versions

The following overview shows the currently used versions.

- The new eCH Versions take place in the BusinessRules, UIConfig and the documentation. Please be aware the new eCH Versions can only be run with SHIP Connector Version 1.6.0. Same for RAC.
- A new Security Concept with more focus on the distributed systems is released.

For SHIP-Standard. See www.ship-standard.ch

Components	Released Version	Compatible Versions	Storage Location
• SHIP Connector	1.6.0	Message Version <ul style="list-style-type: none"> • 1.2.2 • 1.2.3 • 1.2.4 • 1.2.5 	SHIP-Standard
• SHIP Connector Database	same mysql		part of SHIP Connector
• SHIP RAC	1.6.0	Message Version <ul style="list-style-type: none"> • 1.2.2 • 1.2.3 • 1.2.4 • 1.2.5 	SHIP-standard
• SHIP RAC Database	same existdb		part of SHIP RAC
• SHIP Message Forwarding	1.6.0	used for Message Version 1.2.3	SHIP-Standard
• LDAP / AD Interface			part of SHIP RAC
• SHIP Central Services	1.6.0		part of SHIP Infrastructure

<ul style="list-style-type: none"> • Business Rules eCH-0236 V1.0.0 	1.2.2		part of SHIP Connector and SHIP-services
<ul style="list-style-type: none"> • Business Rules eCH-0236 V2.0.0 	1.2.4	only with SHIP Connector 1.6.0	part of SHIP Connector and SHIP-services
<ul style="list-style-type: none"> • Business Rules eCH-0237 	1.2.3		part of SHIP Connector and SHIP-services
<ul style="list-style-type: none"> • Business Rules eCH-0253 V1.0.0 	1.2.5	only with SHIP Connector 1.6.0	part of SHIP Connector and SHIP-services
<ul style="list-style-type: none"> • SHIP Referencedata ValueSet eCH-0234Valueset V1.0.0 	V1.0.0		part of SHIP Connector (from Central Service) and SHIP-services
<ul style="list-style-type: none"> • API Interface Sender API 	1.0 and 2.0		part of SHIP Connector
Documentation			
<ul style="list-style-type: none"> • eCH-0234 – SHIP Data standard benefit cases Administration Healthcare 	2.0.0	see linked documents in the document	eCH
<ul style="list-style-type: none"> • eCH-0235 – SHIP Message standard 	2.0.0	see linked documents in the document	eCH
<ul style="list-style-type: none"> • eCH-0236 – SHIP Process standard "Hospital stationary" 	2.0.0	see linked documents in the document	eCH
<ul style="list-style-type: none"> • SHIP Message Changes eCH-0236 V2.0.0 	1.0.0		SHIIP-Standard for user
<ul style="list-style-type: none"> • eCH-0237 – SHIP Process standard «Care» 	1.1.0	see linked documents in the document	eCH
<ul style="list-style-type: none"> • SHIP Implementierungsergänzung eCH-0237 	1.0.0		SHIIP-Standard for user
<ul style="list-style-type: none"> • eCH-0253 – SHIP Process standard ambulant" 	1.0.0	see linked documents in the document	eCH

• Data protection implementation recommendation	2.0		SHIIP-Standard for user
• Data protection proof	2.1		SHIIP-Standard for user
• IT Security-Concept (including SaaS)	2.3		SHIIP-Standard for user
• SHIP Betrieb (Operation)	1.0.0		SHIIP-Standard for user
• SHIP Connector Integration	1.0.0		SHIIP-Standard for user
• RAC Benutzerhandbuch (User Guide)	1.1.0		SHIIP-Standard for user
Third-Party-Produkte			
mysql - Windows	8.0		used by the SHIP Connector
mysql - Linux	8.0		used by the SHIP Connector
eXistDB	5.1.1		part of SHIP RAC
Java - Windows	11		
OpenJDK - Linux	11		

the Colored Objects are available in a new Version.

RED are mandatory changes

YELLOW Changes should be adapted.

GREEN Changes can be adapted

Supported SHIP versions

With the new SHIP Version 1.6 the support for SHIP Version 1.4 ends. Affected components are:

- SHIP Connector in version 1.4.x

SHIP Version	Date	Connector	RAC	Business Rules		
				eCH-0236	eCH-0237	eCH-0253
SHIP 1.6.x	12.05.2022	1.6.x	1.6.x	eCH-0236 V2.0.0 Message Version 1.2.4	eCH-0237 V1.1 - Message Version 1.2.3	eCH-0253 V1.0.0 Message Version 1.2.5

SHIP 1.5.x	04.11.20 21	1.5.x	1.5.x	eCH-0236 V1.0 - Message Version 1.2.2	eCH-0237 V1.1 - Message Version 1.2.3	
SHIP 1.4.x	22.04.20 21	1.4.x	1.3.x	eCH-0236 V1.0 - Message Version 1.2.2	eCH-0237 V1.1 - Message Version 1.2.3	