Orchestra

HEALTHCARE EDITION

RELEASE NOTES

OHE / RELEASE 17.2.1 – FEATURE PACK

< E170006 >

Peoduct	**Orchestra - Healthcare Edition**
Version	founded on Orchestra 4.7
	Release 17.2.1
Datum	23.11.2017

CONTENT

The purpose of this document is to summarize the functional scope of the Product “Orchestra Healthcare Edition” in Version R 17.2.1.

Furthermore, this documernt identifies new features , changes and fixes in this Release Version of the product.

TARGET GROUP

This document is intended as release information for experts in health care information technology, including solution architects, project managers, consultants as well as developers and administrators.

FEATURE PACK 17.2.1

The release 17.2.1 enhances the functionallity of the previouse released Version 17.1.1. The following document gives an overview about the new added features.

1. Release Changes

1.1 Features and Functionalities

1.1.1 IHE Client enhancements

[#OHE-960 & #OHE-962 & #OHE-963 & #OHE-964 & #OHE-965 & #OHE-966]

The following PID segments are directly added in the IHE channels :

- PID.11.1.2 – Street Name
- PID.11.1.3 – Dwelling Number
- PID.11.2 - Other Designation
- PID.11.8 - OtherGeographicDesignation
- PID.11.9 – CountyCode
- PID.18 - Patient Account Number
- PID.21 - Mothers Identifier

TLSManager offers the configuration of cipher suites

1.1.2 Personnel White Pages Directory

[#OHE-1020 & #OHE-345 & #OHE-648]

- PWP module uses OpenLDAP to store information about organizations, users and roles
- Basic human workforce user directory information
- LDAP contains a separate branch for each organization
- PWP offers methods to query the LDAP regarding users and organizations

1.1.3 XUA-(LDAP) Improvements

[#OHE-817 & #OHE-790 & #OHE-834 & #OHE-648]

- Read configuration/user-data from LDAP (XUA authentication against PWP)

Issue Assertion

- A client-user requests a SAML-Assertion from XAssertionProvider
- The XAssertionProvider authenticates the client-user against a LDAP
- If the client-user can be authenticated, then a SAML-Assertion is issued to client
- If the client-user cannot be authenticated, then a SOAP Fault is replied to client

Validate Assertion

- A client-user requests an IHE transaction with an SAML-Assertion. This SAML-Assertion appears in request in the header section.
- The SAML-Assertion will be validated at XAssertionProvider:
- If it is valid, the further execution of the request (e.g. XDS Stored Query,..) is allowed
- If it is not valid, the request will be revoked with a SOAP Fault back to sender

1.1.4 Other Improvements

[#OHE-886], [#OHE-894]

- Component Browser UI enrichment

1.2 Product Documentation [OHE-743]

- Technical documentation of the Orchestra Health Edition is available in English.
  - revision of documentation [OHE-80]
  - addition of XUA and PWP documentation [OHE-743]

2. Quality Assurance

The product Orchestra Healthcare Edition was tested with automatic tests and manual test cases. The software is based on an IHE-architecture under usage of different industry standards.
The verification process included relevant IHE-workflows and guarantees a solid level of functionality.

The usability and functional correctness was tested and validated by the criteria of the IHE guidelines and under usage of different toolkits (e.g. NIS testing tool, IHE XDS-Toolkit).

The list below contains some minor issues discovered during the testing and quality assurance phase of the product.

2.1 Solved Issue

The following known issues from release 17.1.1 are solved with the feature pack 17.2.1:

OHE-338	ITI-41 Request intendedRecipient invalid structure
OHE-333	ATNA Schema - SN: ParticipantObjectName and - Query are filled with dummy values
OHE-811	Change XACML mapping to conform with the EPPC-G and APPC profiles

2.2 Known Issues

OHE-696	homeCommunityId should be included in SubmissionSet (ITI TF3)
OHE-736	Remove Version of Jetty Server Banner
OHE-737	HonorCipherOrder
OHE-968	milliseconds of birth- and death-time are only storable with 3 (instead of 4) digits
OHE-493	XDS Toolkit Timeouts during ITI-41 and ITI-42 (usage: TLS)

The following functional (required) and quality (optional) set of issues was recommended to reach the state of a solid release between the Trunk-Version and the Release Candidate 1. The Release Candidate 1 succeeded as final Release in terms of the quality management and the recommended set of issues was successfully tested:
[OHE-1015 & OHE-995 & OHE-989 & OHE-985 & OHE-973 & OHE-953 & OHE-952 & OHE-951 & OHE-948 & OHE-936 & OHE-935 & OHE-933 & OHE-929 & OHE-928 & OHE-927 & OHE-923 & OHE-922 & OHE-919 & OHE-918 & OHE-915 & OHE-914 & OHE-888 & OHE-882 & OHE-881 & OHE-880 & OHE-878 & OHE-876 & OHE-874 & OHE-871 & OHE-861 & OHE-860 & OHE-859 & OHE-840 & OHE-827 & OHE-820 & OHE-818 & OHE-816 & OHE-808 & OHE-807 & OHE-338]

2.3 Service Packs

No released service packs for 17.2.1;

3. Compliancy Tests

3.1 IHE - Integrating the Healthcare Enterprise

The Orchestra Healthcare Edition has successfully participated at the European IHE Connectathon 2017 and proved the compliancy with given IHE-profiles as well as interoperability with various products from vendors in the healthcare context.
A detailed list of supported profiles is given in the IHE Integration Statement;

3.2 EFAv2.0 Consumer proof of conformity

- EFAv2.0 Member System
- EFAv2.0 Context Manager

3.3 EFAv2.0 Provider – Single Peer proof of conformity

- EFAv2.0 Resource Manager – Single Peer
- EFAv2.0 Document Registry – Single Peer
- EFAv2.0 Document Repository
- EFAv2.0 Identity Provider

4. Requirements

4.1.1 Designer Requirements

OS	Windows 7, 8.1 and 10 or Ubuntu Linux 12.04, 14.04, 16.04 or Red Hat Enterprise Linux 6,7
CPUs	min. 2 cores
RAM	min. 4 GB
storage	min. 50 GB
DB	access to runtime DB
3d party apps	Notepad++, SOAP UI, 7Zip, Java 8

4.1.2 Server Requirements

The usage of a virtual environment (VM ware) must be given. The following system requirements can be understood as recommended requirements in the context of the Orchestra Healthcare Edition. The actual memory requirements vary in the context of the processed IHE data according to medical specialty areas, data throughput, and log depth.

OS	CentOS 6, 7 or Red Hat Enterprise Linux 6,7
CPUs	CPU with 16 cores
RAM	32 GB Ram
storage	260 GB SAN 1: OS SAN 2: 25 GB – Orchestra application SAN 3: 45 GB – DB-Orchestra (interval: 30 d) SAN 4: 90 GB DB Dumps SAN 5: 30 GB DB Logs SAN 6: 50 GB Fileshare LTA SAN 7: 20 GB Fileshare Journalfiles

	In addition, the following calculation is recommended as the basis for IHE data persistence: report: 500 KB patient: 60 KB ATNA-log: 5KB
DB	MySQL 5.6 32 GB Ram, CPU with 12 cores
3d party apps	Linux, Java 8.