

1. Report summary

1.1. Test Laboratory

| | |
|----------------|-----------------------|
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1.2. Tested Organization

| | |
|-----------------|---|
| Name | the i-engineers AG |
| Mailing address | Badenerstrasse 141 8004 Zürich Zürich Switzerland |

1.3. Tested System(s)

| European Connectathon 2015 - Luxemburg | | |
|---|---------|--------------|
| Product Name | Version | Owner |
| health-engine | 8.11.0 | Thomas Frick |
| This testing session was held from 4/20/15 to 4/24/15 | | |

1.4. Report identification

This report has been generated on 5/22/15 with identifier 2015.Europe.Connectathon.TIE.20150522094828

1.5. Disclaimer

This report summarizes the outcome of the testing performed by the i-engineers AG during the connectathon European Connectathon 2015 - Luxemburg, it includes information about success and failure and should only be used internally. This report does not certify the capabilities of any commercial product offered by the i-engineers AG. Potential purchasers of the organization's products should consult any IHE Integration Statements [<http://product-registry.ihe.net>] published by the organization to confirm the IHE profiles and actors supported by its products.

2. health-engine (8.11.0)

2.1. Comment(s) added on system

4/24/15 9:53:40 AM (CEST GMT+0200) : aboufahj (IHE-EU) Note added : (from TI-38781) errors are in the step

4/22/15 10:12:14 AM (CEST GMT+0200) : Itramontan (University) Note added : (from TI-39068)

Please, repeat the step 120 since the response from the Supplier is an error. It seems that the Supplier does not recognize the format date in PID.7.1 = 195107*, but it is well formatted. The Supplier should fix it. Thanks

2.2. Results per Integration Profile/Actor/Option

| Results per Integration Profile/Actor/Option | | | | |
|--|---|--------------------------------|------|--------|
| Integration Profile | Actor | Option | Type | Result |
| Cross-Enterprise Document Sharing | Integrated Document Source/Repository | None | S | Pass |
| Cross-Enterprise Document Sharing | Document Registry | Patient Identity Feed (HL7 V2) | S | Pass |
| Audit Trail and Node Authentication | Secure Application | None | T | Pass |
| Patient Identifier Cross-referencing for MPI | Patient Identifier Cross-reference Consumer | PIX Update Notification | T | Pass |
| Cross-Enterprise Document Sharing | Document Repository | None | S | Pass |
| Cross-Enterprise Document Sharing | Document Registry | None | S | Pass |
| Patient Demographics Query | Patient Demographics Consumer | None | T | Pass |
| Patient Demographics Query | Patient Demographics Supplier | None | T | Pass |
| Consistent Time | Time Client | None | T | Pass |
| Patient Identifier Cross-referencing for MPI | Patient Identifier Cross-reference Consumer | None | T | Pass |
| Cross-Enterprise Document Sharing | Document Consumer | None | S | Pass |
| XAD-PID Change Management | Document Registry | None | T | Pass |

T: thorough / S: supportive

2.3. Test instances summary

| Test instances summary | | | | |
|------------------------|-----------|--------|--------|--------------------|
| Tests | Performed | Passed | Failed | Partially verified |
| 22 | 40 | 36 | 1 | 3 |

Tests: the number of different tests performed

Performed: the total number of test instances performed (This count does not take into account the aborted, still running and not verified test instances)

Passed/Failed: the number of test instances verified and set to passed/failed by a monitor

Partially verified: the number of different test instances that was reviewed but on which some work still need to be done

2.4. Test instance details (per Integration profile/Actor/Option)

In the next sub-sections, performed test instances are gathered by Integration profile / Actor / Option. For each of the test instances, the detailed informations are available by following the link.

2.4.1. Cross-Enterprise Document Sharing / Integrated Document Source/Repository / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|-----------------|--------|-------------|
| Meta test: Meta_Doc_Repository_Retrieve (All tests) | 3 | R | | | |
| XDS.b_Integrated_Repository_Retrieve (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS.b_Integrated_Source_Registers_Document | 3 | R | 40894 (tdoloue) | | |

2.4.2. Cross-Enterprise Document Sharing / Document Registry / PAT_IDENTITY_FEED_HL7V2

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|---------------|------------------|-------------|
| XDS.b_Simple_HL7v2_Feed | 1 | R | 41191 (mmetz) | 38781 (aboufahj) | |

2.4.3. Audit Trail and Node Authentication / Secure Application / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|--|--------|-------------|
| ATNA_Audit_Msg_Check | 1 | R | 38285 (fgate) | | |
| ATNA_Authenticate_Error_Cases | 1 | R | 38291 (mzanardini) | | |
| ATNA_Authenticate_with_Tool | 1 | R | 38260 (tdoloue) | | |
| ATNA_Logging | 3 | R | 38426 (ymorvan) 38638 (mhayes) 38449 (mmetz) | | |
| ATNA_Questionnaire | 1 | R | 38340 (mhayes) | | |

2.4.4. Patient Identifier Cross-referencing for MPI / Patient Identifier Cross-reference Consumer / PIX_UPDATE_NOTIFICATION

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|---|--------|-------------|
| PIX_CLIENT_Upd_Notification | 1 | R | 40127 (tschneider) 40814 (d.ratschiller) | | |

2.4.5. Cross-Enterprise Document Sharing / Document Repository / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|--|---|-----|--|--------|---------------|
| Meta test: Meta_Doc_Repository_Retrieve (All tests) | 3 | R | 41178 (mgirardello) 41202 (paula) 41206 (paula) 40724 (tdoloue) 41100 (Bleuer) | | |
| XDS.b_Consumer_Query_Retrieve (Meta_Doc_Repository_Retrieve) | | | 41178 (mgirardello) 41202 (paula) 41206 (paula) 40724 (tdoloue) 41100 (Bleuer) | | |
| XDS-I.b_Retrieve_CDA_Img_Report (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS-I.b_Retrieve_DICOM_C-MOVE (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS-I.b_Retrieve_DICOM_WADO (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS-I.b_Retrieve_Img_Doc_Set (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS-I.b_Retrieve_PDF_Report (Meta_Doc_Repository_Retrieve) | | | | | |
| XDS-I.b_Retrieve_Text_Report (Meta_Doc_Repository_Retrieve) | | | | | |
| Meta test: Meta_Doc_Repository_Store (All tests) | 3 | R | 39914 (xavier.francois) 41057 (xavier.francois) 38800 (rbreas) | | 40754 (mmetz) |
| XDS.b_Doc_Source_Stores_Document (Meta_Doc_Repository_Store) | | | 39914 (xavier.francois) 41057 (xavier.francois) 38800 (rbreas) | | 40754 (mmetz) |
| XDS-I.b_Store_CDA_Imaging_Report (Meta_Doc_Repository_Store) | | | | | |
| XDS-I.b_Store_DICOM_Manifest (Meta_Doc_Repository_Store) | | | | | |
| XDS-I.b_Store_PDF_Report (Meta_Doc_Repository_Store) | | | | | |
| XDS-I.b_Store_Text_Report (Meta_Doc_Repository_Store) | | | | | |
| XDS.b_Document_Addendum | 1 | O | | | |
| XDS.b_Document_Replace | 1 | O | | | |
| XDS.b_Document_Transformation | 1 | O | | | |
| XDS.b_Error_Reporting | 1 | R | | | |
| XDS.b_Folder_Management | 1 | O | | | |
| XDS.b_Repository_Do_This_First | 1 | R | 38816 (aboufahj) | | |

2.4.6. Cross-Enterprise Document Sharing / Document Registry / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|---------------|--------|-------------|
| Meta test: Meta_Doc_Registry_Load (All tests) | 3 | R | 39557 (mmetz) | | |
| XDS.b_Doc_Source_Stores_Document (Meta_Doc_Registry_Load) | | | 39557 (mmetz) | | |
| XDS.b_Integrated_Source_Registers_Document (Meta_Doc_Registry_Load) | | | | | |

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|-------------------------|--------|-------------|
| XDS-I.b_Store_CDA_Imaging_Report (Meta_Doc_Registry_Load) | | | | | |
| XDS-I.b_Store_DICOM_Manifest (Meta_Doc_Registry_Load) | | | | | |
| XDS-I.b_Store_PDF_Report (Meta_Doc_Registry_Load) | | | | | |
| XDS-I.b_Store_Text_Report (Meta_Doc_Registry_Load) | | | | | |
| Meta test: Meta_Doc_Registry_Query (All tests) | 3 | R | | | |
| XDS.b_Consumer_Query_Retrieve (Meta_Doc_Registry_Query) | | | | | |
| XDS.b_Integrated_Repository_Retrieve (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_CDA_Img_Report (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_DICOM_C-MOVE (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_DICOM_WADO (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_Img_Doc_Set (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_PDF_Report (Meta_Doc_Registry_Query) | | | | | |
| XDS-I.b_Retrieve_Text_Report (Meta_Doc_Registry_Query) | | | | | |
| XDS.b_Document_Addendum | 1 | R | | | |
| XDS.b_Document_Replace | 1 | R | | | |
| XDS.b_Document_Transformation | 1 | R | | | |
| XDS.b_Error_Reporting | 1 | R | | | |
| XDS.b_Folder_Management | 1 | R | 39651 (mmetz) | | |
| XDS.b_Registry_Do_This_First | 1 | R | 38380 (xavier.francois) | | |
| XDS.b_Registry_Folder_Handling | 1 | R | | | |
| XDS_Query_Buffet | 3 | O | | | |

2.4.7. Patient Demographics Query / Patient Demographics Consumer / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|-----------------------|---|-----|--|--------|--------------------|
| PDQ_Continuation_Test | 1 | O | 39619 (crs4) | | |
| PDQ_Multiple_Query | 3 | R | 40610 (jcstaub) 38827 (Itramontan) 39483 (jcstaub) | | 39068 (Itramontan) |

2.4.8. Patient Demographics Query / Patient Demographics Supplier / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|-------------------------|---|-----|---|--------|-------------|
| IRWF.b_Unsched_with_PDQ | 1 | O | | | |
| PDQ_Continuation_Test | 1 | O | | | |
| PDQ_Multiple_Query | 3 | R | 40610 (jcstaub) 40612 (domicathrine) 40694 (crs4) | | |
| PIX/PDQ_Load | 1 | R | 40608 (tschalle) | | |

2.4.9. Consistent Time / Time Client / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---------------------------------|---|-----|------------------------------------|--------|-------------|
| CT_Client_Synch | 1 | R | 38213 (tschneider) | | |

2.4.10. Patient Identifier Cross-referencing for MPI / Patient Identifier Cross-reference Consumer / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|-------------------------------|---|-----|---|--------|---------------------------------------|
| PIX_CLIENT | 3 | R | 39280 (jcstaub) 39422 (crs4) 40093 (crs4) | | 39412 (d.ratschiller) |
| PIX_PDO_Query | 1 | O | | | |

2.4.11. Cross-Enterprise Document Sharing / Document Consumer / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|---|---|-----|--------------------------------|--------|-------------|
| Meta test: Meta_Doc_Consumer_Query_Retrieve (All tests) | 3 | R | 40888 (Bleuer) | | |
| XDS.b_Consumer_Query_Retrieve (Meta_Doc_Consumer_Query_Retrieve) | | | 40888 (Bleuer) | | |
| XDS.b_Integrated_Repository_Retrieve (Meta_Doc_Consumer_Query_Retrieve) | | | | | |
| SeR_Authorization_Decisions_Qry | 1 | O | | | |
| SeR_PurposeOfUse | 1 | O | | | |
| SeR_SubjectRole | 1 | O | | | |
| XDS-XCA-I_homeCommunityID | 1 | R | | | |
| XDS_Consumer_To_XDS_Proxy | 1 | R | | | |
| XDS_Query_Buffet | 3 | O | | | |

2.4.12. XAD-PID Change Management / Document Registry / NONE

See below the details of the test instances performed for this Integration Profile/Actor/Option

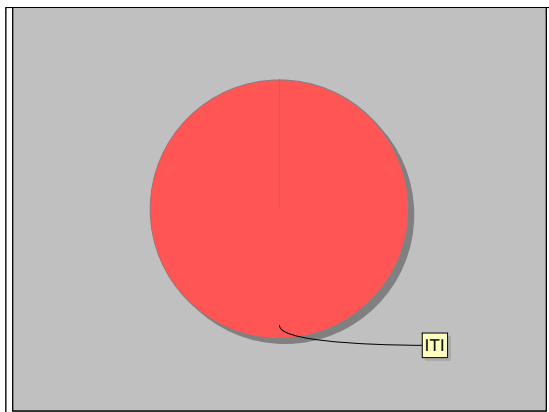
| Test (Meta Test) | # | Opt | Verified | Failed | Partially V |
|--|---|-----|---------------------------------|--------|-------------|
| XPID_Notify_Link_Change_EU | 1 | R | 40303 (jcstaub) | | |

2.5. Statistics

This section gathers some statistics on test instances. Only passed, failed and partially verified test instances are represented there.

2.5.1. Test instances per domain

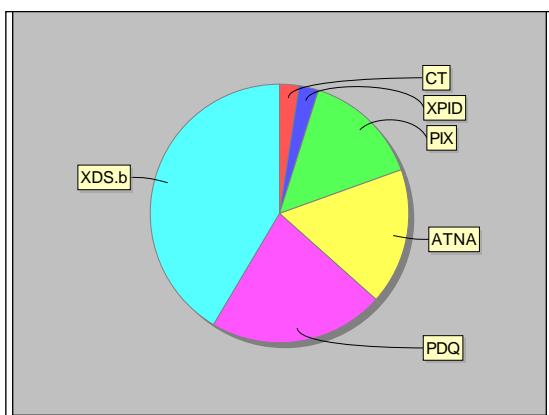
Below is the distribution of test instances performed according to the various IHE domains your system was registered for.



| Domain | nb of TI |
|--------|----------|
| ITI | 41 |

2.5.2. Test instances per integration profile

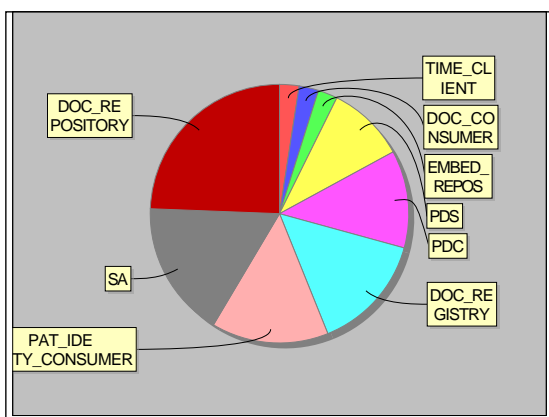
Below is the distribution of test instances performed according to the various IHE integration profiles your system was registered for.



| Integration profile | nb of TI |
|---------------------|----------|
| CT | 1 |
| XPID | 1 |
| PIX | 6 |
| ATNA | 7 |
| PDQ | 9 |
| XDS.b | 17 |

2.5.3. Test instances per actor

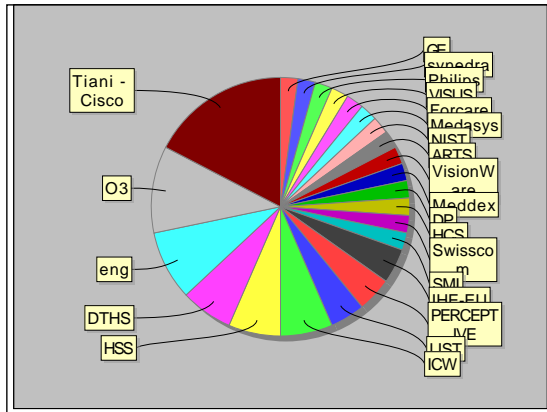
Below is the distribution of test instances performed according to the various IHE actors your system was registered for.



| Actor | nb of TI |
|-----------------------|----------|
| TIME_CLIENT | 1 |
| DOC_CONSUMER | 1 |
| EMBED_REPOS | 1 |
| PDS | 4 |
| PDC | 5 |
| DOC_REGISTRY | 6 |
| PAT_IDENTITY_CONSUMER | 6 |
| SA | 7 |
| DOC_REPOSITORY | 10 |

2.5.4. Test instances per partner (organization level)

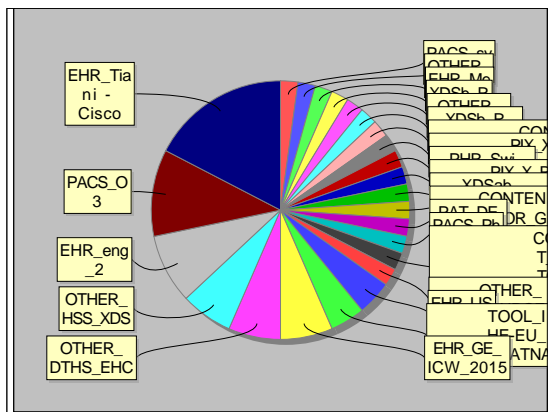
Below is the distribution of test instances performed per peer organization



| Organization | nb of TI |
|---------------|----------|
| GE | 1 |
| synedra | 1 |
| Philips | 1 |
| VISUS | 1 |
| Forcare | 1 |
| Medasys | 1 |
| NIST | 1 |
| ARTS | 1 |
| VisionWare | 1 |
| Meddex | 1 |
| DP | 1 |
| HCS | 1 |
| Swisscom | 1 |
| SMI | 1 |
| IHE-EU | 2 |
| PERCEPTIVE | 2 |
| LIST | 2 |
| ICW | 3 |
| HSS | 3 |
| DTHS | 3 |
| eng | 4 |
| O3 | 5 |
| Tiani - Cisco | 8 |

2.5.5. Test instances per partner (system level)

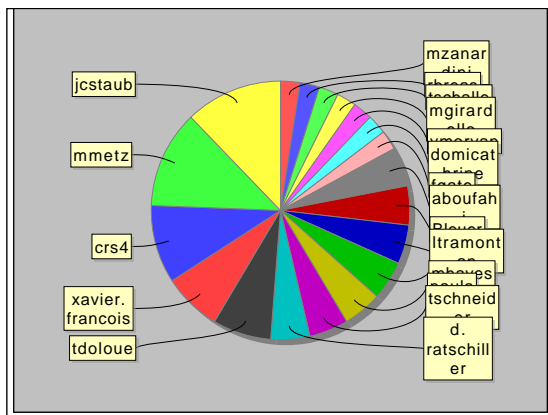
Below is the distribution of test instances performed per peer system



| System | nb of TI |
|--|----------|
| PACS_synedra_2 | 1 |
| OTHER_Meddex | 1 |
| EHR_Medasys | 1 |
| XDSb_REP_DP | 1 |
| OTHER_ARTS_4_1 | 1 |
| XDSb_REP_VISUS_1 | 1 |
| CONTENT_CONSUMER_HCS_MC4_2015 | 1 |
| PIX_X_REF_MGR_Perceptive_ACUO | 1 |
| PHR_Swisscom_2015 | 1 |
| PIX_X_REF_MGR_VisionWare_5 | 1 |
| XDSab_REG_Force_3 | 1 |
| CONTENT_CREATOR_GE_MM | 1 |
| PAT_DEVICE_SMI | 1 |
| PACS_Philips_1 | 1 |
| CONTENT_CREATOR_PERCEPTIVE_PACSGEAR - PACSSCAN | 1 |
| OTHER_NIST_SOURCE_2015 | 1 |
| EHR_LIST | 2 |
| TOOL_IHE-EU_GAZELLE_ATNA_TOOL | 2 |
| EHR_GE_ICW_2015 | 3 |
| OTHER_DTHS_EHC | 3 |
| OTHER_HSS_XDS | 3 |
| EHR_eng_2 | 4 |
| PACS_O3 | 5 |
| EHR_Tiani - Cisco | 8 |

2.5.6. Test instances per monitor

Below is the distribution of test instances verified per monitor



| Monitor | nb of TI |
|-----------------|----------|
| mzanardini | 1 |
| rbreas | 1 |
| tschalle | 1 |
| mgirardello | 1 |
| ymorvan | 1 |
| domicathrine | 1 |
| fgate | 1 |
| aboufahj | 2 |
| Bleuer | 2 |
| ltramontan | 2 |
| mhayes | 2 |
| paula | 2 |
| tschneider | 2 |
| d.ratschiller | 2 |
| tdoloue | 3 |
| xavier.francois | 3 |
| crs4 | 4 |
| mmez | 5 |
| jcstaub | 5 |

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