IHE-Europe Connectathon Results Report

**Date of Report: November, 25th 2020**

**Dates of Connectathon: November, 2-6 2020**

**National Deployment Committee/Domain Committee Sponsoring Connectathon:**

IHE - Europe AISBL

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*\* must be an approved IHE Technical Project Manager*

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**Connectathon Location (city/facility/address)**

Connectathon Online Brussels

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| --- |
|  |

## Scope of Connectathon (list domains and/or specific profiles tested and any other notable scope information including any IHE-related project testing):

IHE domains:

1. Radiology
2. IT-Infrastructure
3. Pathology and Laboratory Medicine
4. Patient Care Coordination

## Size of Connectathon (number of attendees; number of vendors/systems; number of successful test results in terms of actors and profiles):

27 Companies / 39 Systems / 146 Persons

62 actors tested for 63 profiles

At the end of the event we reached the following numbers in terms of testing :

1. Verified test instances 1088
2. Partially verified test instances 34
3. Failed test instances 7
4. Test instances not verified 2
5. Test instances critical 0

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2020** | **2020/ system** | **2019** | **2019/ system** | **2018** | **2018 /system** | **2017** | **2017 /system** | **2016** | **2016 /system** | **2015** | **2015**  **/system** | **2014** | **2014**  **/system** |
| **Test Instances** | 1131 | 29 | 2554 | 31.92 | 3127 | 37.67 | 3350 | 29.13 | 3020 | 28.76 | 2401 | 26.98 | 2613 | 25.62 |
| **Systems** | 39 |  | 80 |  | 83 |  | 115 |  | 105 |  | 89 |  | 102 |  |
| **Verified** | 1088 | 27.89 | 1757 | 21.96 | 2938 | 35.40 | 3163 | 27.50 | 2881 | 27.44 | 2232 | 25.08 | 2576 | 25.25 |
| **Failed** | 7 | 0.17 | 8 | 0.10 | 10 | 0.12 | 37 | 0.32 | 27 | 0.26 | 41 | 0.46 | 21 | 0.21 |
| **Partially Verified** | 34 | 0.87 | 51 | 0.63 | 173 | 1.73 | 115 | 1.00 | 68 | 0.65 | 62 | 0.70 | 37 | 0.36 |
| **To be Verified** | 2 | 0.05 | 61 | 0.76 | 24 | 0.29 | 21 | 0.18 | 29 | 0.28 | 41 | 0.46 | 8 | 0.08 |
| **Critical** | 0 | 0 | 13 | 0.16 | 11 | 0.13 | 14 | 0.12 | 15 | 0.14 | 25 | 0.28 | 11 | 0.11 |

## Testing Tools Used (tools used in testing; include discussion of who provided support for use of the tools):

1. IHE-Europe Supported Tools
   1. Gazelle Test Management
   2. EVS Client
   3. Proxy
   4. Schematron Validators
   5. Order Manager
   6. Patient Manager
   7. Model Based Validators
   8. Gazelle Webservice Tester
2. Rocket.chat
3. J4CARE (supported by IHE-Europe Team)
   1. DCM4CHEE as Central Archive
4. OFFIS ev
   1. DCMCHECK (dicom validator)
5. GE
   1. DCCHECK
6. NIST
   1. Xdstools7
   2. FHIR Server read write
   3. NIST Fhir Toolkit

## Test Monitors (number of test monitors participating and sources used to recruit monitors):

31 Test Monitors were recruited. Monitors were recruited according to the process defined by IHE-Europe. Each monitor applied through a web form and declared his/her independence from the test vendors.

## Discussion Challenges and Success in Organization and Execution of Connectathon:

This first Connectathon Online worked well. NIST tools were not available on Monday morning but it was fixed by the end of the day. Proxy ports were communicated at the last time (the Friday before the event) so some participants started the tests with delay due to configuration to do. The test bed has been deployed on Virtual Machines on a dedicated server in the cloud, its sizing has been sufficient.

Rocket.chat was well appreciated and made the communication easier. The onboarding of the users in Rocket.Chat has been chaotic due to a double registration to perform and many users did not follow the given procedure or did not get the procedure. IHE Services is recommending to not perform such import if other usage of Rocket.Chat is planned, but instead to invest in an SSO Integration with the Test Bed.

In terms of tooling, no other major feedback to provide.

## Public Demonstrations or Events Related to Connectathon (name/date/location):

Each day, in parallel to the Connectathon, there were specialist events including associated meetings, discussions and workshops. Additionally, VIP groups got the chance to visit the Connectathon Online floor.

## Statistics

statistics about the various IHE EU Connectathon are reported in the following table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Actors** |  |  | **Profiles** |  |  |
| **Year** | **Registered** | **Tested** | **Percent** | **Registered** | **Tested** | **Percent** |
| 2010 | 75 | 49 | 65.33% | 83 | 47 | 56.63% |
| 2011 | 93 | 64 | 68.82% | 81 | 56 | 69.14% |
| 2012 | 102 | 62 | 60.78% | 116 | 64 | 55.17% |
| 2013 | 109 | 67 | 61.47% | 126 | 73 | 57.94% |
| 2014 | 116 | 75 | 64.66% | 122 | 75 | 61.48% |
| 2015 | 96 | 71 | 73.96% | 110 | 74 | 67.27% |
| 2016 |  |  |  | 99 | 75 | 75.75% |
| 2017 | 128 | 77 | 60.15% | 141 | 83 | 58.98% |
| 2018 | 141 | 89 | 63,12% |  |  |  |
| 2019 | 116 | 81 | 69.82% | 90 | 62 | 68.88% |
| 2020 | 93 | 62 | 66.66% | 98 | 63 | 64.28% |

The table above shows the difference between registration and actually tested actors and profiles.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Systems** | **Organization** | **Monitor who verified tests** | **Profiles per monitor** | **Tested Profiles per monitor** | **Systems per monitor** |
| 2010 | 94 | 66 | 39 | 2.13 | 1.21 | 2.41 |
| 2011 | 117 | 75 | 35 | 2.31 | 1.60 | 3.34 |
| 2012 | 120 | 85 | 44 | 2.64 | 1.45 | 2.73 |
| 2013 | 102 | 76 | 46 | 2.74 | 1.59 | 2.22 |
| 2014 | 102 | 70 | 50 | 2.44 | 1.50 | 2.04 |
| 2105 | 89 | 70 | 48 | 2.20 | 1.48 | 1.78 |
| 2016 | 105 | 75 | 49 | 2.02 | 1.53 | 1.53 |
| 2017 | 115 | 90 | 56 | 2.61 | 1.48 | 2.05 |
| 2018 | 83 | 70 | 63 |  |  |  |
| 2019 | 83 | 66 | 49 | 1.83 | 5.71 | 1.69 |
| 2020 | 39 | 27 | 29 | 3.37 | 2.17 | 1.34 |

The table above shows the progression in terms of tested systems and participating organisations. It also presents the evolution of the number of monitors and the “load” per monitor.

It can be noticed that the “load” per monitor is lower for the 2020 ONLINE CAT, this has been necessary to assure a quick verification cycle between testers and monitor and keep the testing experience of participants satisfying even completely remote.