



IHE SHARAZONE New Dimension in Interoperability Testing

Grand Launch
November 1st, 2021

www.ihe-europe.net/IHE SHARAZONE







Background

It is critical for products **creating** standardized objects to have these objects **tested** with a broad number of **consuming** products in an easy to access environment with most other deployed vendors' products.

Objective

IHE SHARAZONE initially focuses on the sharing & testing of **DICOM objects**, however the resulting framework and service may be extended to other objects, such as CDA & FHIR Documents in the future.



IHE SHARAZONE - Benefits



IHE SHARAZONE, safe, neutral testing environment:

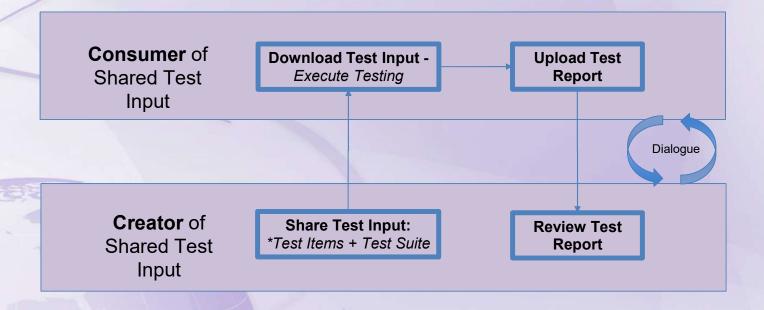
- Source Product submits DICOM objects and test suite. Available to all participants
- Continuous interoperability test offering (24/7): Consumer Products respond with a test report to Source when they chose
- Products are commercial or open source; released or planned to be released
- Does not replace but complements the IHE ConnectathonTM

After successful Pilot with 10 vendors:







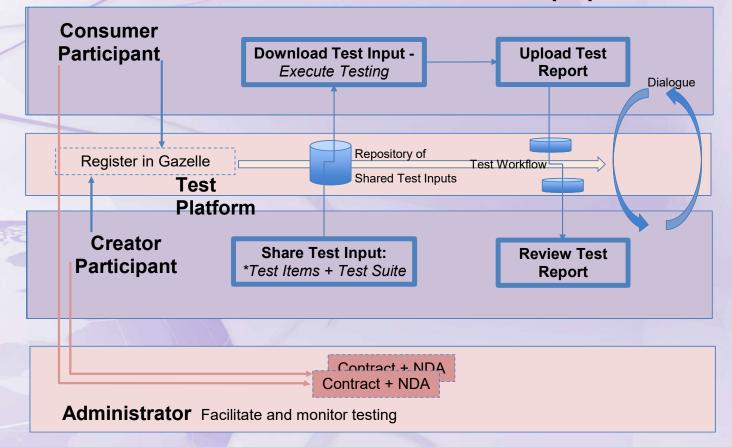


*Test Items = DICOM Datasets
Test Suite = Intended testing for the Test Items
*Test Report = Test Suite with test results recorded





Process Overview (2)

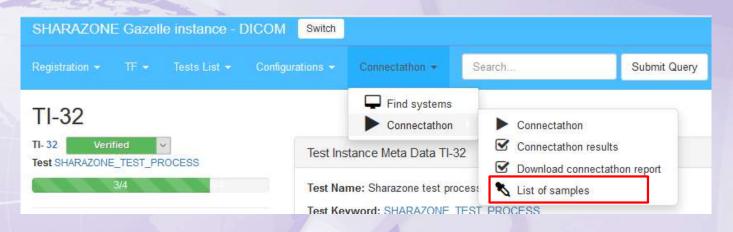




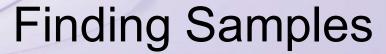


SHARAZONE Gazelle Instance

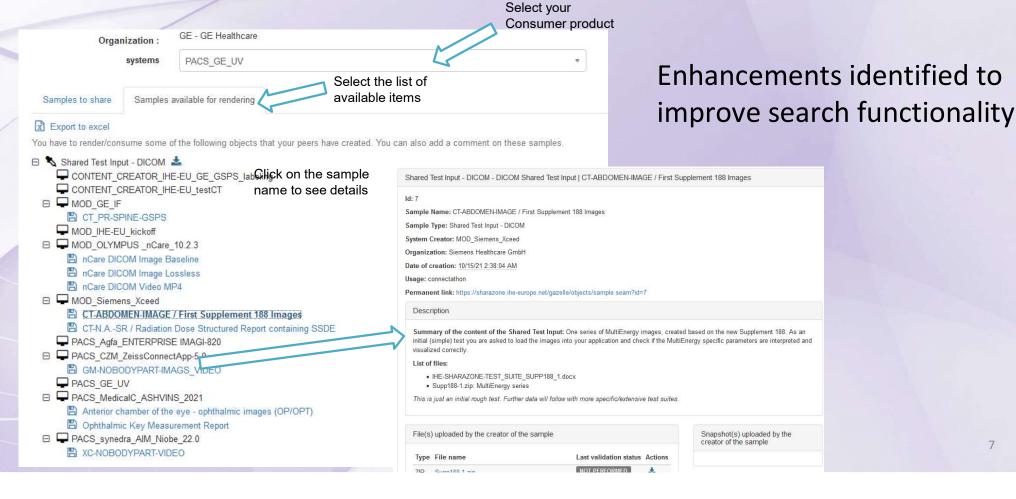
- Organization and user accounts in the SHARAZONE are distinct from North American and European Gazelle instances
- Each organization can register an unlimited number of products
- Shared Test Inputs are uploaded to "Samples"









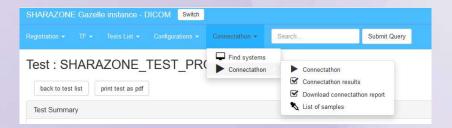


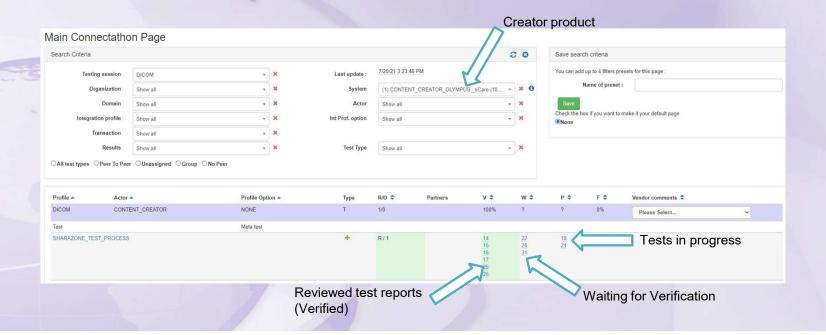




Testing

"SHARAZONE test process" is used to manage SHARAZONE testing











GUIDELINES

This document's purpose is to have a better understanding of how GSPS is handled by different PACS and viewers
Two DICOM images have been shared (one SCPT and one GSPS). The goal is to see how display the GSPS object.
GSPS overlays are displayed over a simulated image as follows:

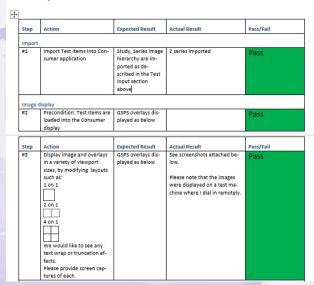
Expected Result

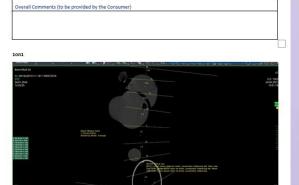
Test Input

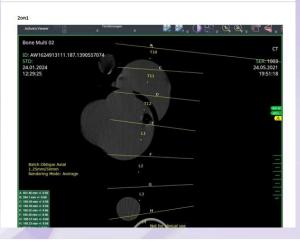
File	Description
gsps.dcm.	Sample for test
image.dcm	Secondary Capture Phantom

Patient "Bone Multi 02"

Test Script

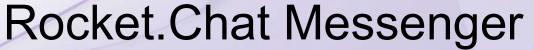






- Template available in Gazelle
- Dialogue may occur in Gazelle or Rocket.Chat

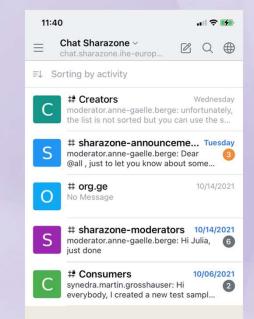






Communications

- Notifications
- Group channels
- Test-instance communication channels
- GDPR compliant

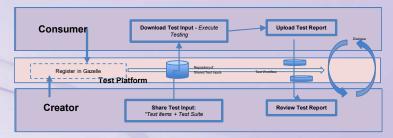




Openness, Confidentiality & Effectiveness



- All Consumer participants access Shared Test Inputs made available by all Creators.
- <u>Consumer participants</u> engaging in a test session for a Shared Test Input, to perform testing per the Test Suite provided by Creator.



- <u>Creator participants</u> of a specific Shared Test Input access corresponding test report(s) produced by Consumer(s), → Confidence for candid feedback from Consumer participants.
- <u>Creator participants</u> of content naturally encouraged to produce:
 - quality Shared Test Input with realistic Test Items (DICOM objects)
 - Simple but relevant test suite instructions to ensure meaningful testing by the Consumers.

Any vendor organization may participate in IHE SHARAZONE:

- With Released (or to be released) Product (Commercial or Open Source)
- Contract including NDA policies
- Yearly fee as either Creator Participant, Consumer Participant or both.







Pricing Model Principles

- Annual participation fee.
- Unlimited Products, Versions or Shared Test Inputs
- Fees (€) are based on company size and role to attract creator products thus appealing to consumer products.

	Creator	Consumer	Both
Participant Level	Participant	Participant	
Large Vendors (>2500 FTE)	1000€	4000€	5000€
Mid-Sized Vendor (250-2500 FTE)	500€	2000€	2500 €
Small Vendors (< 250 FTE)	200€	800€	1000€







Pilot

 10 SHARAZONE Founder members volunteered and tested over the last weeks:

VISUS Agfa Healthcare GE Healthcare

Philips Synedra MedicalPHIT

Siemens OLYMPUS ZEISS

MedicalCommunications

 SHARAZONE Contract vetted, workflow and tooling validated, value confirmed.



Complementary roles of SHARAZONE and CONNECTATHON™



			SHARAZONE	CONNECTATHON
	et	Audience	Engineering & QA	Engineering & QA
Target		Participants	Vendors & Open Source	Vendors & Open Source
		Validation	Pairs of Product/Version	Vendor IHE Capability
Ì			SHARAZONE	CONNECTATHON
1000	tes	Pre-Connectathon Tests		V
	uisi	IHE Connectathon Testing Passed		
	req	Pre-production and product	V	V
	Pre	Specific Product version	V	
			SHARAZONE	CONNECTATHON
ting	b0	Target	Object Content*	IHE Profiles
	Testing	Collaboration and remediation	V	V
	Tes	Anytime & asynchronous	V	
		Content Creator Test Suite	V*	
П				

^{*} If IHE Content Profile available for specific Object (Test Item), Connectathon passed expected







GRAND LAUNCH: November 1, 2021

- Based on the positive feedback from 10 Founder Member Companies, IHE SHARAZONE is announcing its Grand Launch to all vendors of Products exchanging DICOM Objects.
- Your company may immediately join by submitting your signed IHE SHARAZONE Contract.
- Request your IHE SHARAZONE Contract from: www.ihe-europe.net/IHE SHARAZONE
- For information on IHE SHARAZONE contact: <u>secretariat@ihe-europe.net</u>





Benefits - IHE SHARAZONE Member

- Your company may register one or more Product version (or preproduct) either as a Creator of Shared Test Items, or a Consumer or both.
- Your company may test any time 24/7.
- Your company may share and/or download as many Shared Test Items as desired. Only requirement is for Consumers of Shared Test Items to perform the associated test suite and return a test report (to encourage more Creators to share more Test Items !!).
- The IHE SHARAZONE Moderator is available to assist you.





Benefits - IHE SHARAZONE Member

From the start, one immediately leverages the seeding thanks to the Founder Members:

- Close to 15 products are already engaged from 10 leading vendors.
- Close to 15 Shared Test Inputs are available to test with.
 They already resulted in over 30 test reports.
- More than 10 products are ready to test your Shared Test Items
- These testing opportunities will continue to expand







Grand Launch

November 1st, 2021
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"The IHE SHARAZONE pilot phase provided us with the opportunity to test established as well as novel DICOM features. In a professional and cooperative environment, we were able to solve any issue that might arise directly with other IHE SHARAZONE participants. Last, but not least, IHE provides helpful tools for both test management and vendor communication."

Synedra IT, Martin Großhauser







"With IHE SHARAZONE, IHE offers an outstanding framework and robust platform for testing DICOM object interoperability between medical imaging products of different vendors. We are convinced that this offering is an excellent opportunity to collaborate to improve the quality of healthcare through better interoperability of medical imaging products."

Carl Zeiss Meditec, Janna Lingenfelder, Head of Interoperability and Data Quality,







"For an Enterprise Imaging vendor like us, IHE SHARAZONE offers a very valuable test service. It allows us to continuously test all types of DICOM images, videos and their associated objects. That way, any new type of DICOM object that is proposed by the Creator participants is thoroughly tested and potential interoperability gaps are fixed, before it is deployed at healthcare provider sites."

Agfa HealthCare, Bruno Laffin, V&V Connectivity Team Lead







"We've been part of IHE SHARAZONE through a very engaging co-learning and testing environment where participants can collaborate easily and smoothly. Especially, our Head of Product Management Office, *Francis do Rego*, has been very active in collaborating with his peers in providing the right support. We can strongly recommend MedTech companies with a focus on interoperability to join IHE SHARAZONE."

OLYMPUS EUROPA, Engin Demirel, EMEA Head of Product Mgt, Marketing and Sales







IHE SHARAZONE turns out to be a very effective means as a creator to get quick and profound feedback from the other participants about appropriateness and compatibility of the created/uploaded DICOM objects. As a consumer, IHE SHARAZONE enables you to get early access to DICOM instances based on the newest enhancements of the standard to prepare your products to deal with them properly.

Siemens Healthcare, Till Hoenig, Computed Tomography







"IHE SHARAZONE is a great opportunity to test, as an addition to the IHE Connectathons, our products directly with other vendors.

We enjoy the ability to continuously test the interoperability of DICOM objects with other IHE SHARAZONE participants."

MedicalCommunications, Alexander Gogol









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