Universal Acceptance

UA-Readiness of Popular Identity Platforms (Okta, Auth0, OpenIAM)

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About Shirak Technologies (SHTE)

Shirak Technologies is a technology partner headquartered based in Armenia focused on IOT systems developments, business, and industrial solutions, as well as research, development, and maintenance services of complex systems and software platforms. Founded in 2001, the company has always been on the forefront of the high-tech industry, backed up with innovations and inventions. We compete in a price-centric and innovation-centric development environment, we invest and highly value education, corporate culture, and exceedingly incentivize innovative thinking to promote an informed atmosphere among teams and professionals.

Introduction

This report outlines research and analysis conducted to determine the Universal Acceptance (UA)-readiness of some popular identity platforms while using internationalized email addresses (EAI) and email addresses with long top-level domains (TLDs). The findings of this study will be used for future recommendations with an objective to improve UA.

Executive Summary

Universal Acceptance (UA) is the concept that all valid domain names and email addresses should be treated equally. However, many Internet resources having traditionally developed security validations and constraints that reject Internationalized Domain Names (IDNs) and new long TLDs. While users have more choice in the domain name industry, the range of validations and rules to filter identity formats on various platforms remain outdated. These limitations prevent users from being able to use the domain name or email address of their choice, which include those in local languages.

The objective of this research is to identify UA-related gaps in a few of proprietary and open-source identity platforms. The findings will help platform vendors and Internet-enabled key players and applications become UA-ready in an effort to build a more inclusive Internet.

Test Methodology

The test was run on the front-end platform, HyeConnect, in a test environment (a social network platform that works through invitations model). The integration of several identity platforms with the HyeConnect social media platform was implemented: OKTA, Auth0, and OpenIAM. Below are the supported versions:

Identity Platforms:

- Okta: version 2022.05.0
- Auth0: version 2202.03 (30269.1762)
- OpenIAM: version 4.2.1.2

The tests were implemented as automated QA running on the test platform of HyeConnect, written in Java and using the Selenium environment. The tests were run on different web browsers:

Browsers:

- Google Chrom: 102.0.5005.63
- Edge: 107.0.1418.35 (64 bit)
- Firefox: 90.0

Operating Systems:

- Windows: Windows 10
- Ubuntu: 22.04 LTS

Email Server:

- Microsoft Exchange, 2019 Server

The test cases include all major uses of the identity tools which deal with input, validation, processing, storage, and display of the different categories of domain names and email addresses identified as relevant for UA (including domain names with new TLDs, long TLDs, IDNs, and email addresses with Unicode@IDN and Unicode@ASCII-domain-name).

As a result of the test run, the logs generated are the basis for further analysis and reporting. The results of the categorized outcomes are provided to capture any possible gaps and are tagged with pass/fail options. The list of bug reports will be included in the reporting documentation. It will include the following results:

- Test results on whether the enabled identity platform supports authentication flow for new gTLDs or IDNs with EAI.
- Test results on whether the enabled identity platform remembers/stores EAI and new gTLDs or IDNs.
- Test results on whether the enabled identity platform is able to work with all types of URLs in its own systems.
- Test results on whether the implementation of OAuth follows to underlying Open Authentication standard requirements, “OAuth.”
- https://en.wikipedia.org/wiki/OAuth for UA-readiness.

Test Cases

The following test cases were identified and ran within the scope of the given project:

Test 1:

Register new account on HyeConnect (signup flow)

Scenario: The registered user on HyeConnect invites a new user that has an EAI account to get registered on the platform.

Applicability: HyeConnect applications ideally must allow usage of EAI email addresses in all steps of signup workflow: perform an entry of EAI and pass validation, store, process, and visualize EAI. As a result, an invitation email is sent to the invited user with EAI (a token for signup).

Step #1 : Visit invite page in user profile section of HyeConnect social network platform and invite a new user to the platform by entering EAI account details and click invite.

Step #2 : Login to webmail of the given email account, check received HyeConnect invite email, and click on the registration link (a token) in the mail body to get signed up.

Step #3 : The link will redirect user to a signup page on HyeConnect for a dialog.

Step #4: Fill in the necessary details and password to register a new account on HyeConnect.

Test 2:

Authenticate the user account (sign-in flow)

Scenario: The user attempts to login into HyeConnect account having already registered EAI account and access credentials.

Applicability: HyeConnect applications ideally must allow user to pass validation of pre-registered EAI email address in signup flow to perform an entry of EAI and pass validation, store, process and visualize EAI, while getting signed-in to the platform.

Step #1: Visit home page of HyeConnect social network platform and click on sign-in button.

Step #2: Enter EAI ID and password credentials to get signed in using pre-registered email account.

Test 3:

Authenticate user account through forget password in HyeConnect

Scenario: The user may get authenticated while using their own EAI account in the social network platform to reset the password.

Applicability: HyeConnect applications ideally must allow user to identify if EAI address exists as a registered user to send a reset email to the given addressee for resetting account password.

Step #1: Visit home page of HyeConnect social network platform and click on forget password link.

Step #2: Fill in EAI account details in the mail prompt of forget password modal, and click send.

Step #3: Login to webmail of the given email account, check HyeConnect link in the mail body to reset password.

Step #4: Enter the new password and reset the password.

Test 4:

Authenticate user account in HyeConnect through OKTA

Scenario: The user passes two-factor authentication using its own EAI account through OKTA identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its email identity performing OKTA verification, and to sign in.

Step #1: Visit profile page of HyeConnect and in settings submenu, activate two-factor authentication as well as identity type to use – OKTA.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on OKTA authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in webmail.

Step #5: Get 6-digit code from OKTA to enter and sign in.

Test 5:

Authenticate user account in HyeConnect through Auth0

Scenario: The user passes two-factor authentication using its own EAI account and Auth0 identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its EAI email address in the first step and then on second step while performing Auth0 verification to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu activate two-factor authentication as well as identity type to use – Auth0.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on Auth0 authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in mobile App Guardians.

Step #5: Get 6-digit code from app to enter in the prompt and sign in.

Test 6:

Authenticate user account in HyeConnect through OpenIAM

Scenario: The user passes two-factor authentication using its own EAI account and OpenIAM identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its EAI email address in the first step and then on second step while performing OpenIAM verification to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu activate two-factor authentication as well as identity type to use – OpenIAM.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on OpenIAM authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in webmail.

Step #5: Get 6-digit code from OpenIAM to enter and sign in.

Test 7:

Authenticate user account through 2-Factor (2F) authentication in HyeConnect using OKTA

Scenario: The user passes two-factor authentication using its own EAI account through OKTA identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its email identity performing OKTA verification, and to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu, activate two-factor authentication as well as identity type to use – OKTA.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on OKTA authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in webmail.

Step #5: Get 6-digit code from OKTA to enter and sign in.

Test 8:

Authenticate user account through two-factor authentication in HyeConnect using Auth0

Scenario: The user pass two-factor authentication using its own EAI account and Auth0 identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its EAI email address in the first step and then on second step while performing Auth0 verification to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu, activate two-factor authentication as well as identity type to use – Auth0.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on Auth0 authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in mobile App Guardians.

Step #5: Get 6-digit code from app to enter in the prompt and sign in.

Test 9:

Authenticate user account through two-factor authentication in HyeConnect using OpenIAM

Scenario: The user pass two-factor authentication using their own EAI account and OpenIAM identity platform.

Applicability: HyeConnect applications ideally must allow user to validate its EAI email address in the first step and then on second step while performing OpenIAM verification to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu, activate two-factor authentication as well as identity type to use – OpenIAM.

Step #2: Sign out

Step #3: Visit home page of HyeConnect social network platform and click on OpenIAM authentication.

Step #4: Sign in with pre-signed email account credentials (EAI) in webmail.

Step #5: Get 6-digit code from OpenIAM to enter and sign in.

Test 10:

Verify whether view/display/store of the characters in local language scripts are intact

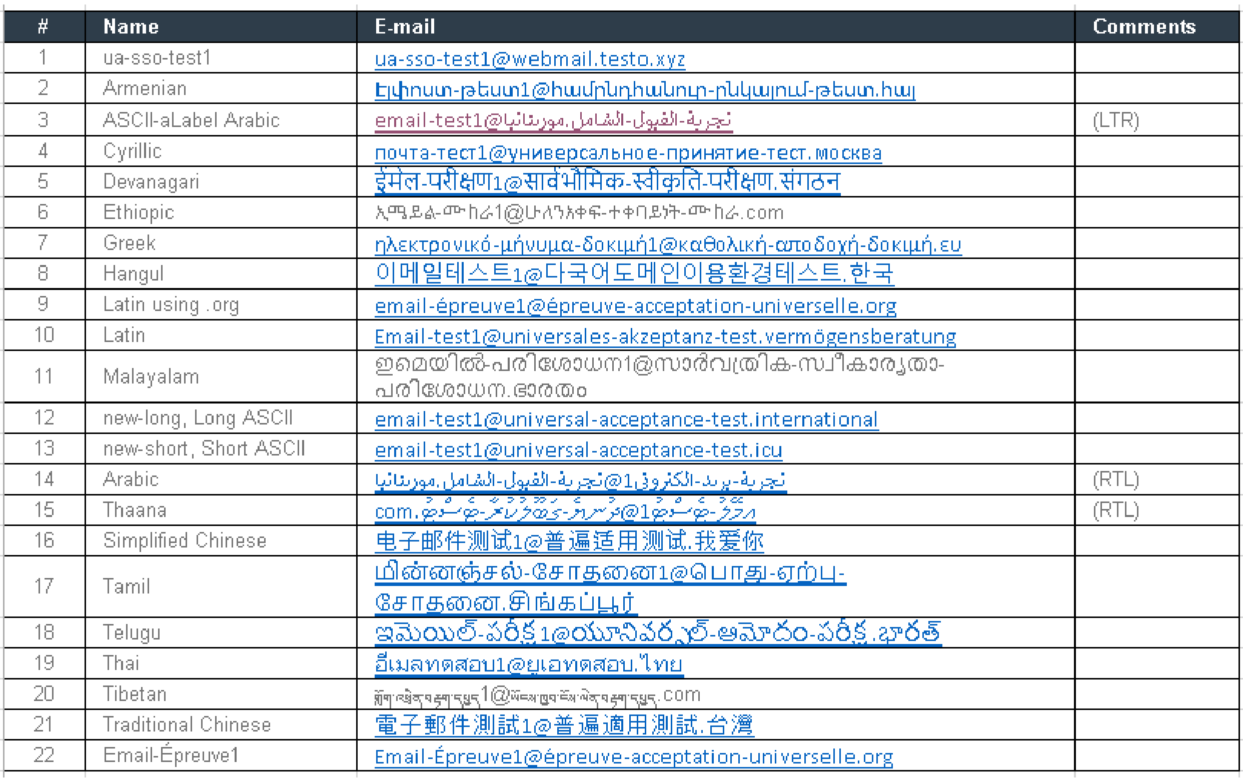
Scenario: The test is assigned to verify whether EAI is displayed in local language scripts.

Applicability: HyeConnect applications ideally must allow user to validate its EAI email address in the first step and then on second step while performing OpenIAM verification to sign in.

Step #1: Visit profile page of HyeConnect, and in settings submenu, activate two-factor authentication.

Test Candidate Email Addresses

The list of email addresses as test candidates are given below.



#	Name	E-mail	Comments
1	ua-sso-test1	ua-sso-test1@webmail.testo.xyz	
2	Armenian	Էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ	
3	ASCII-aLabel Arabic	email-test1@تجربة-القبول-الشامل.موريتانيا	(LTR)
4	Cyrillic	почта-тест1@универсальное-принятие-тест.москва	
5	Devanagari	ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन	
6	Ethiopic	ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com	
7	Greek	ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.eu	
8	Hangul	이메일테스트1@다국어도메인이용환경테스트.한국	
9	Latin using .org	email-épreuve1@épreuve-acceptation-universelle.org	
10	Latin	Email-test1@universales-akzeptanz-test.vermögensberatung	
11	Malayalam	ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം	
12	new-long, Long ASCII	email-test1@universal-acceptance-test.international	
13	new-short, Short ASCII	email-test1@universal-acceptance-test.icu	
14	Arabic	تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا	(RTL)
15	Thaana	އީމޭލް-ޓެސްޓް1@ޔުނިވަރސަލް-ގަބޫލުކުރުން-ޓެސްޓް.com	(RTL)
16	Simplified Chinese	电子邮件测试1@普遍适用测试.我爱你	
17	Tamil	மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்	
18	Telugu	ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్	
19	Thai	อีเมลทดสอบ1@ยูเอทดสอบ.ไทย	
20	Tibetan	གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com	
21	Traditional Chinese	電子郵件測試1@普遍適用測試.台灣	
22	Email-Épreuve1	Email-Épreuve1@épreuve-acceptation-universelle.org	

Test Results and Findings

The pilot study was performed on the following identity platforms:

- Proprietary Identity Platform:
  - OKTA
  - Auth0
- Open-Source Identity Platform:
  - OpenIAM

The front-end platform used is HyeConnect (www.hyeconnect.org)

- The test automation is developed and run on the Selenium platform. The code is written in Java, running on www.hyeconnect.org platform, and performed validations as per the test scenarios described in test cases section (test 1-9). Test 10 is performed out of Selenium scope.

Selenium takes the email addresses from the external list (that can be updated at any time) to run passing through all addresses and for each email address performing the following:

A. Send invitation
B. User Registration
C. Switch Authentication (to next SSO)
D. Login
E. Logout
F. Forget password
G. Login after password reset

Send invitation, registration, forget password, and login after password reset, can be performed on HyeConnect platform native authentication mechanisms. The platform can sign up a new user in “invitation only” mode.

Switch Authentication means to register a new user through API to the given SSO platform (e.g., register a new user in OKTA). Thus, with third-party SSO platforms, validation refers to register a new use in SSO, login, and logout.

Below is the test report summary that is auto-generated on HyeConnect’s internal portal:

- **MS Exchange** cannot handle valid EAIs as a mail sender

HyeConnect platform is using invitation-based registration of the users by using MS Exchange as a mail sender. The following mail addresses fail to send on MS Exchange version 2019:

- почта-тест1@универсальное-принятие-тест.москва
- மின்னஞ்சல்-சோதனை1@ப ோது-ஏற்பு-சோதனை.சிங்க ்பூர்
- **MS Office** linkification issue

Microsoft Office cannot recognize and display EAIs with linkification as follows:

- ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com (Ethiopic)
- 이메일테스트1@다국어도메인이용환경테스트.한국 (Hangul)
- ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം (Malayalam)
- སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com (Tibetan)

The below are email formats it recognized and created links for:

- ua-sso-test1@webmail.testo.xyz
- Էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ
- email-test1@تجربة-القبول-الشامل.موريتانيا
- почта-тест1@универсальное-принятие-тест.москва
- ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन
- ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ
- email-épreuve1@épreuve-acceptation-universelle.org
- Email-test1@universales-akzeptanz-test.vermögensberatung
- email-test1@universal-acceptance-test.international
- email-test1@universal-acceptance-test.icu
- تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا
- ޓެސްޓް-ޔޫނިކޯޑް-[illegible]@1ޓެސްޓް-[illegible].com
- 电子邮件测试1@普遍适用测试.我爱你"
- மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்
- ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్
- อีเมลทดสอบ1@ยูเอทดสอบ.ไทย
- 電子郵件測試1@普遍適用測試.台灣
- Email-Épreuve1@épreuve-acceptation-universelle.org

Some examples may be difficult to read, ޓެސްޓް-ޔޫނިކޯޑް-[illegible]@1ޓެސްޓް-[illegible].com in particular.

EAI Validation

Below are the findings related to EAI and IDN validations:

- HyeConnect platform initially was identified as supporting Latin-ASCII email addresses only. The development team modified the validation, data storage, and data processing parts to support UA compliancy for sign-in, signup, forget password, and change password. The given fixes eliminated the limitations of the platform to enable the platform to accept EAI, Unicode@ASCII, IDNs, and long TLDs
- The below given Regex is a syntax for three languages (Dart, ReactJS and Java) to be used as a reference scheme that one may use for EAI validation. The given reference relates to both backend and frontend designs:

Dart email validation:

```
String p = r"^[\p{L}\p{M}a-zA-Z0-9_!#$%&'*+\/=?\x60{|}~^.\-]+@[\p{L}\p{M}a-zA-Z0-9.\-
]+.[\p{L}\p{M}a-zA-Z]{2,64}$";
RegExp regExp = new RegExp(p, unicode: true);
```

ReactJS email validation:

```
const emailRegex = /^[\p{L}\p{M}0-9._%+-~·\.]+@[\p{L}\p{M}0-9\.·-]+\.[\p{L}\p{M}]{2,64}$/u;
```

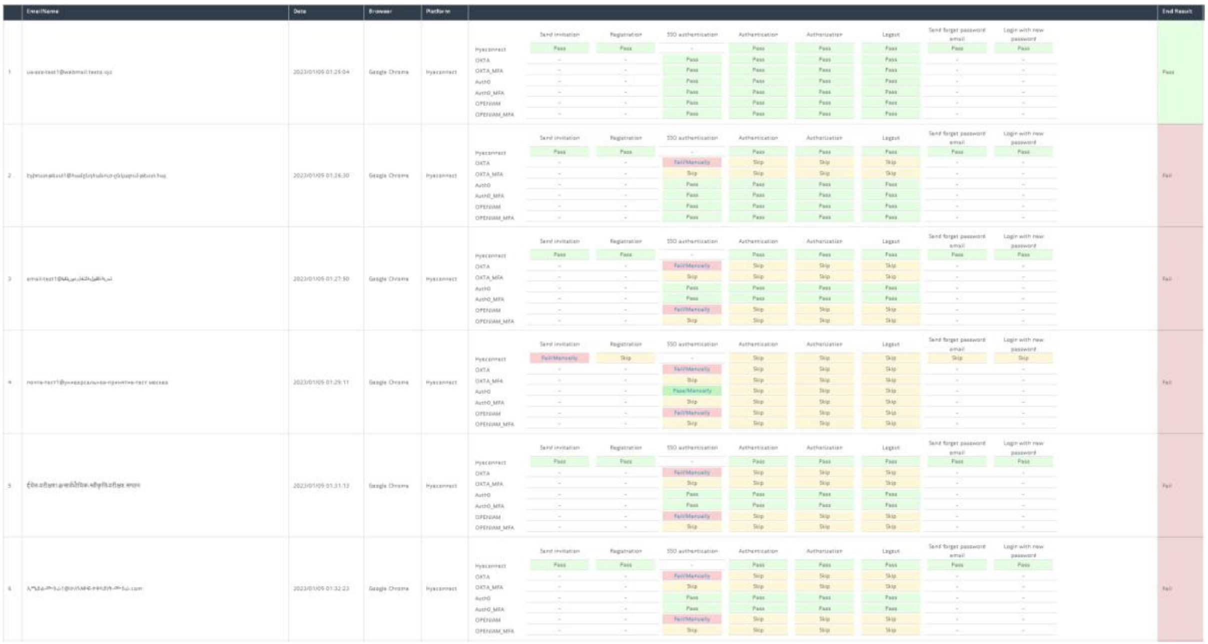
Java email validation:

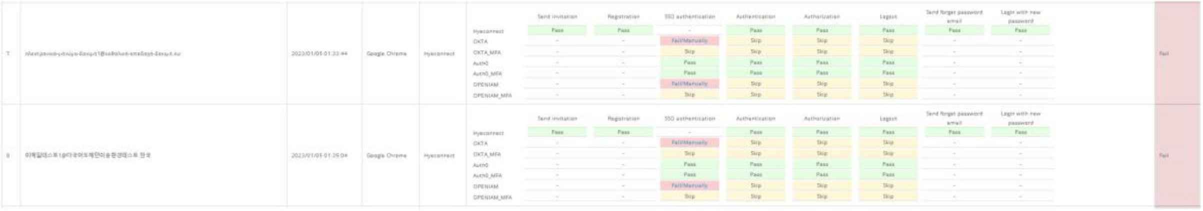
```
private static final String REGEX = "^[\\p{L}\\p{M}\\w_!#$%&'*+\\/=?\\x60{|}~^.\\-
]+@[\\p{L}\\p{M}\\w.\\-]+[.]{1,}[\\p{L}\\p{M}a-zA-Z]{2,64}$";
private static final Pattern VALID_EMAIL_ADDRESS_REGEX = Pattern.compile(REGEX,
Pattern.CASE_INSENSITIVE);
```

The above regex recommendations are given just as a reference that one may use while developing UA-compliant validators on their own platforms. The given expressions may not be sufficient or completely correct if the validation is too conservative. Note that none of these are perfect. Using them to warn about probable invalid addresses should be acceptable but should not be used for automatically rejecting candidate addresses.

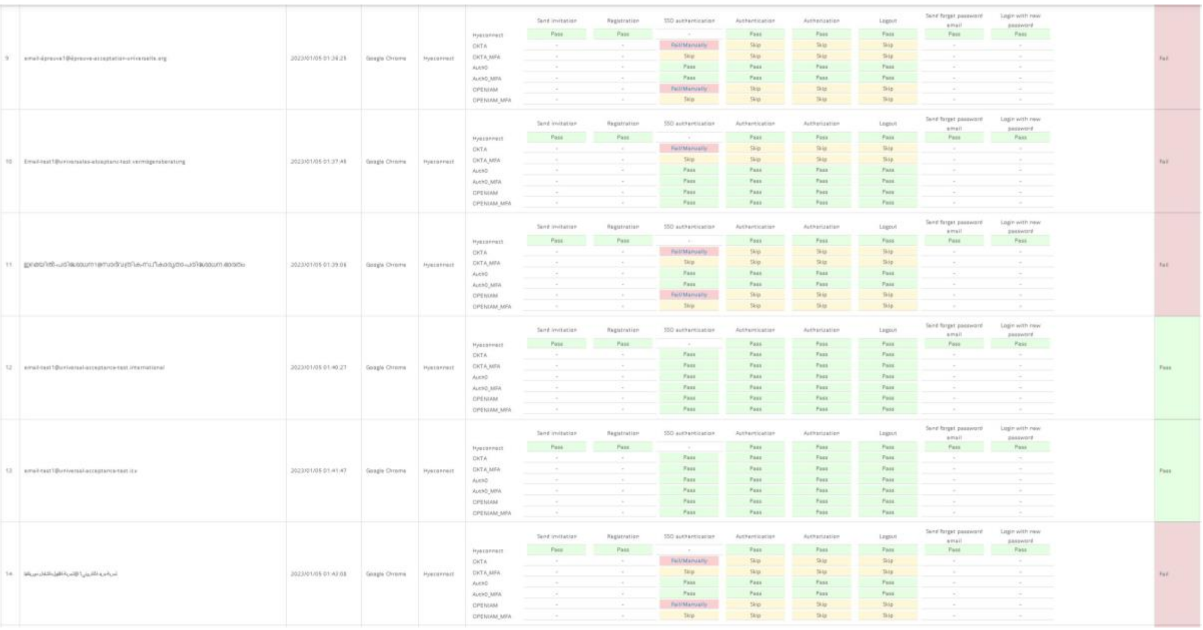
Test Case Run Flow

The test cases were run through Jenkins pipeline and the following results are generated as given below. The failures are shown in red, and the skips relate inability to continue the test from the failure step.

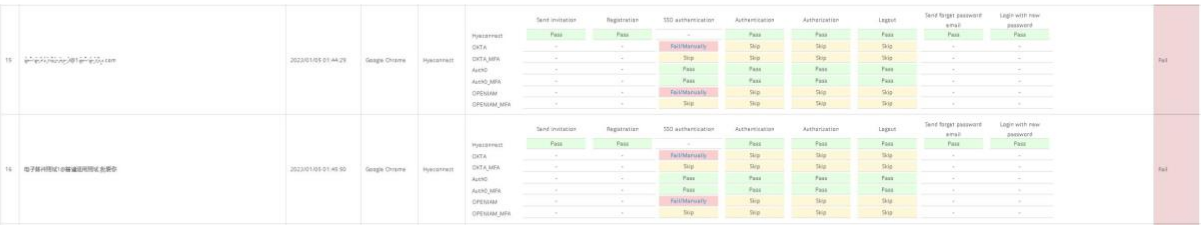




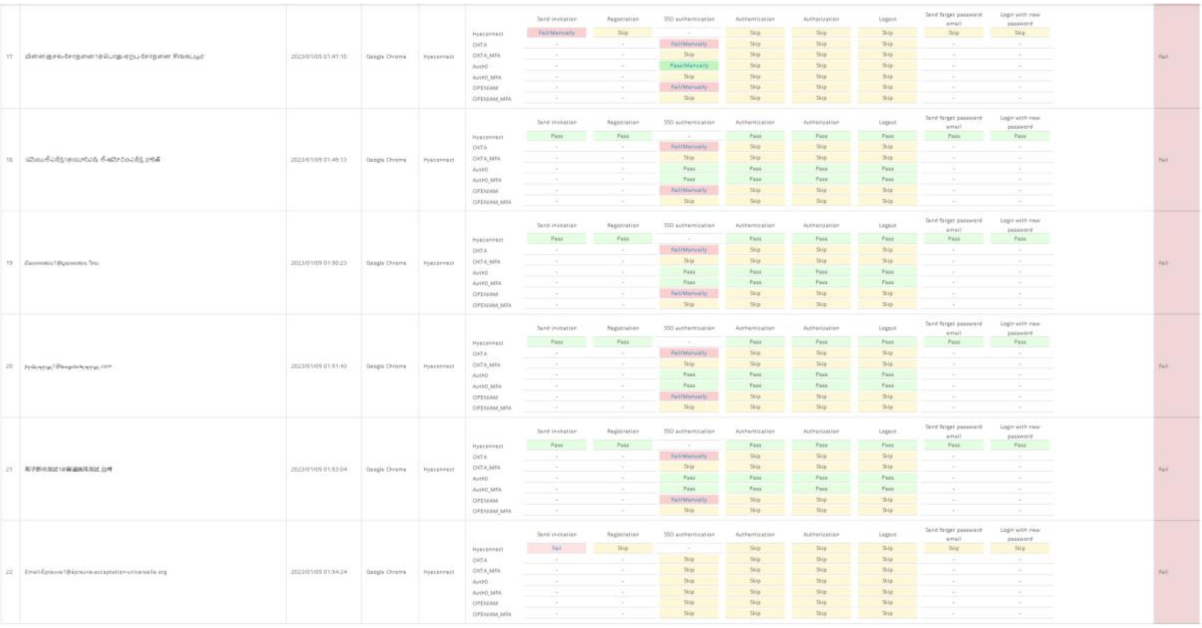
	EmailName	Date	Browser	Platform		Send invitation	Registration	SSO authentication	Authentication	Authorization	Logout	Send forget password email	Login with new password	End Result
1	[illegible]	2023/01/05 01:25:04	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Pass
					OKTA	-	-	Pass	Pass	Pass	Pass	-	-	
					OKTA_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
2	[illegible]	2023/01/05 01:26:30	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
3	[illegible]	2023/01/05 01:27:50	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
4	[illegible]	2023/01/05 01:29:11	Google Chrome	Hyeconnect	Hyeconnect	Fail/Manually	Skip	-	Skip	Skip	Skip	Skip	Skip	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass/Manually	Skip	Skip	Skip	-	-	
					Auth0_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
5	[illegible]	2023/01/05 01:31:13	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
6	[illegible]	2023/01/05 01:32:23	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
7	[illegible]	2023/01/05 01:33:44	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
8	[illegible]	2023/01/05 01:35:04	Google Chrome	Hyeconnect	Hyeconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	



						Send invitation	Registration	SSO authentication	Authentication	Authorization	Logout	Send forget password email	Login with new password	
9	email-épreuve1@épreuve-acceptation-universelle.org	2023/01/05 01:36:25	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
10	Email-test1@universelles-akzeptanz-test.vermögensberatung	2023/01/05 01:37:48	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
11	ഇമെയിൽ-പരീക്ഷണം1@സാർവത്രിക-സ്വീകാര്യത-പരീക്ഷണം.ഭാരതം	2023/01/05 01:39:08	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
12	email-test1@universal-acceptance-test.international	2023/01/05 01:40:27	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Pass
					OKTA	-	-	Pass	Pass	Pass	Pass	-	-	
					OKTA_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
13	email-test1@universal-acceptance-test.icu	2023/01/05 01:41:47	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Pass
					OKTA	-	-	Pass	Pass	Pass	Pass	-	-	
					OKTA_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
14	[illegible]1@[illegible].موريتانيا	2023/01/05 01:43:08	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	



						Send invitation	Registration	SSO authentication	Authentication	Authorization	Logout	Send forget password email	Login with new password	
15	[illegible]1@[illegible].com	2023/01/05 01:44:29	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
16	电子邮件测试1@普遍适用测试.我爱你	2023/01/05 01:45:50	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	



						Send invitation	Registration	SSO authentication	Authentication	Authorization	Logout	Send forget password email	Login with new password	
17	மின்னஞ்சல்-சோதனை1@பொதுவான-ஏற்பு-சோதனை.சிங்கப்பூர்	2023/01/05 01:47:10	Google Chrome	Hyaconnect	Hyaconnect	Fail/Manually	Skip	-	Skip	Skip	Skip	Skip	Skip	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass/Manually	Skip	Skip	Skip	-	-	
					Auth0_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
18	ఇమెయిల్‌పరీక్ష1@యుఏపరీక్ష.భారత్	2023/01/05 01:49:13	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
19	อีเมลทดสอบ1@ยูเอทดสอบ.ไทย	2023/01/05 01:50:23	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
20	[illegible]1@[illegible].com	2023/01/05 01:51:43	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
21	電子郵件測試1@普遍適用測試.台灣	2023/01/05 01:53:04	Google Chrome	Hyaconnect	Hyaconnect	Pass	Pass	-	Pass	Pass	Pass	Pass	Pass	Fail
					OKTA	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Pass	Pass	Pass	Pass	-	-	
					Auth0_MFA	-	-	Pass	Pass	Pass	Pass	-	-	
					OPENIAM	-	-	Fail/Manually	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
22	Email-Épreuve1@épreuve-acceptation-universelle.org	2023/01/05 01:54:24	Google Chrome	Hyaconnect	Hyaconnect	Fail	Skip	-	Skip	Skip	Skip	Skip	Skip	Fail
					OKTA	-	-	Skip	Skip	Skip	Skip	-	-	
					OKTA_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0	-	-	Skip	Skip	Skip	Skip	-	-	
					Auth0_MFA	-	-	Skip	Skip	Skip	Skip	-	-	
					OPENIAM	-	-	Skip	Skip	Skip	Skip	-	-	
					OPENIAM_MFA	-	-	Skip	Skip	Skip	Skip	-	-	

How to Reproduce the Errors

The detailed steps on how to reproduce the errors are given in Annex 1.

OAuth Evaluation

The evaluation of OAuth standard is performed on target systems: OKTA / Auth0 / OpenIAM. They are treated as black boxes.

The following steps are performed:

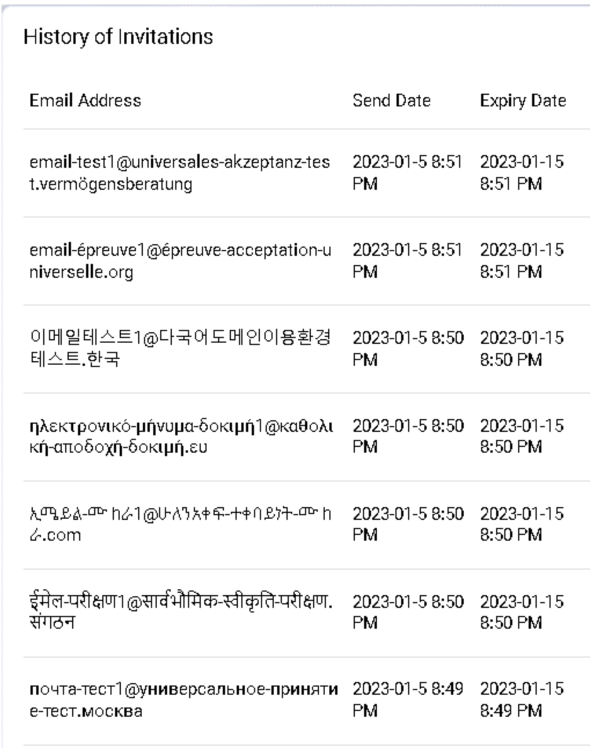
1. Register a new user with EAI within target systems via Restful API calls.
2. Authenticate the user (being registered in the target system, as mentioned in the above step) using login page of the given platform.
3. Upon successful login third-party target platform returns JWT token.
4. The user info is requested using JWT token from the platform.

The evaluation according to the log messages is done on each of those steps to capture whether it goes through or fails. Therefore, UA barriers, if any, is identified by the given failure of JWT token validation, or on the failure of getting user info by using provided JWT token.

As per the observation, it was identified that all the authentication failures occurred on registration phase (step one).

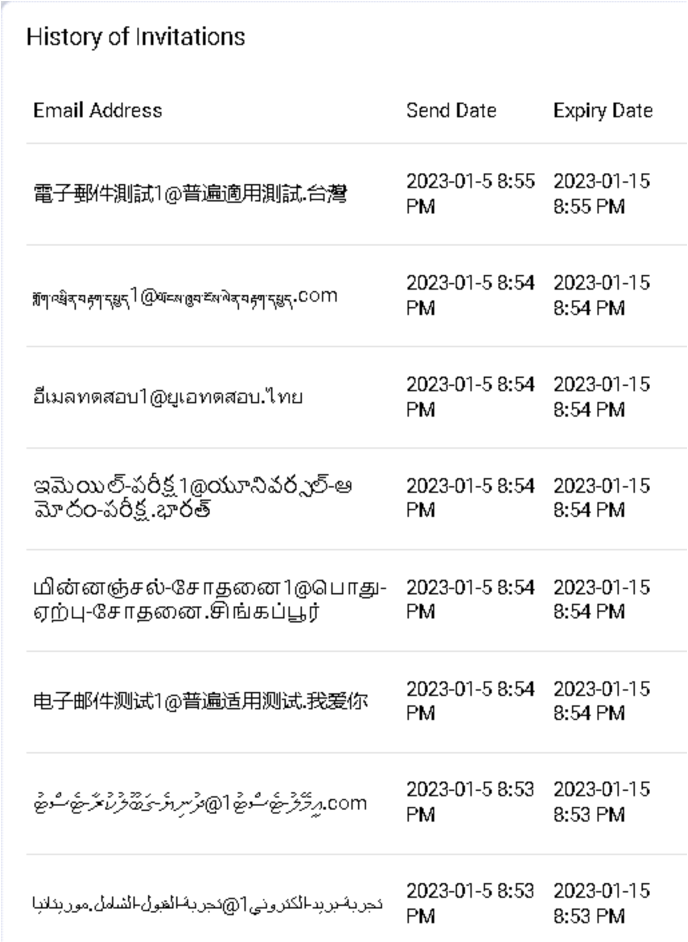
View/Display/Store Validation

The validation of language script formats in terms of how the fonts and local language scripts for EAI and long emails are displayed on the web page (view/display), as well as how they are stored and processed internally to be intact against the user perception.
For manual validation by visual comparison of original views shown in Microsoft Word of EAI and long emails against what is captured within the app, is given in the below snapshots:



History of Invitations

Email Address	Send Date	Expiry Date
email-test1@universales-akzeptanz-test.vermögensberatung	2023-01-5 8:51 PM	2023-01-15 8:51 PM
email-épreuve1@épreuve-acceptation-universelle.org	2023-01-5 8:51 PM	2023-01-15 8:51 PM
이메일테스트1@다국어도메인이용환경테스트.한국	2023-01-5 8:50 PM	2023-01-15 8:50 PM
ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.eu	2023-01-5 8:50 PM	2023-01-15 8:50 PM
ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com	2023-01-5 8:50 PM	2023-01-15 8:50 PM
ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन	2023-01-5 8:50 PM	2023-01-15 8:50 PM
почта-тест1@универсальное-принятие-тест.москва	2023-01-5 8:49 PM	2023-01-15 8:49 PM



History of Invitations

Email Address	Send Date	Expiry Date
電子郵件測試1@普遍適用測試.台灣	2023-01-5 8:55 PM	2023-01-15 8:55 PM
གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com	2023-01-5 8:54 PM	2023-01-15 8:54 PM
อีเมลทดสอบ1@ยูเอทดสอบ.ไทย	2023-01-5 8:54 PM	2023-01-15 8:54 PM
ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్	2023-01-5 8:54 PM	2023-01-15 8:54 PM
மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்	2023-01-5 8:54 PM	2023-01-15 8:54 PM
电子邮件测试1@普遍适用测试.我爱你	2023-01-5 8:54 PM	2023-01-15 8:54 PM
ޓެސްޓެ-ޓެކްހޫޖަތަ-ރިސަރު@1ޓެސްޓެ-ޓެދަދު.com	2023-01-5 8:53 PM	2023-01-15 8:53 PM
تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا	2023-01-5 8:53 PM	2023-01-15 8:53 PM

Tickets and Follow-up

The tickets were opened on the support page with OKTA and OpenIAM.

OKTA Ticket details:
-------- Original Message --------
Subject: Okta has received your support request! Case Number 01612779.
ref:_00DA0KWYD._5004z1lDlM2:ref
Date: 2023-01-10 17:44
 From: Okta Support <support@okta.com>
To: "developer@ihost.am" <developer@ihost.am>

Hi Avetik Yessayan,

Your support request (01612779) has been received by Okta Global Customer Care.

Subject: UA Readiness support for EAI
Description: OKTA is not supporting some Email Addresses International
(EAIs) mentioned below. An error occurs on a new user registration in OKTA while using
Rest API call https://dev-25957965.okta.com/api/v1/users?provider=false

The failing email addresses are as follows:
Էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ
email-test تجربة-القبول-الشامل.موريتانيا@ 1 почта-тест1@универсальное-принятие-тест.москва
ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन
ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com
ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ
이메일테스트1@다국어도메인이용환경테스트.한국
email-épreuve1@épreuve-acceptation-universelle.org
Email-test1@universales-akzeptanz-test.vermögensberatung
ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീ കാര്യതാ-പരിശോധന.ഭാരതം
تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا
ޓު ސް ޓަ -ޗޫ ލު ކު ޏޫ ދަ -ނަ ސި ރު @1ޓު ސް ޓަ -ކު ޫރި .com
电子邮件测试1@普遍适用测试.我爱你
மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்
ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్
อีเมลทดสอบ1@ยูเอทดสอบ.ไทย
སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com
電子郵件測試1@普遍適用測試.台灣

We want to help you resolve this problem as quickly as possible, and we will look into this issue promptly.

Please be sure to check our Knowledge base or our Communities. We may have an answer for you already posted!

Thank You,
Okta Global Customer Care

ref:_00DA0KWYD._5004z1lDlM2:ref

-------- Original Message --------
Subject: UA Readiness support for EAI [
ref:_00DA0KWYD._5004z1lDlM2:ref]
Date: 2023-01-10 19:11
From: Okta Support <support@okta.com>
To: "developer@ihost.am" <developer@ihost.am>

Hello Avetik,

My name is Beau Mayeux and I will be assisting you with this case regarding UA Readiness support for EAI.
Those characters are not supported. Please refer to KB article for your reference.
https://support.okta.com/help/s/article/What-characters-are-supported-in-the-Okta-email-address-field?language=en_US

Regards,
Beau Mayeux

ref:_00DA0KWYD._5004z1lDlM2:ref

-------- Original Message --------
Subject: UA Readiness support for EAI [
ref:_00DA0KWYD._5004z1lDlM2:ref]
Date: 2023-01-13 13:35
From: Okta Support <support@okta.com>
To: "developer@ihost.am" <developer@ihost.am>

Hello Avetik,

I have also found that you can submit a feature request for this as it is currently not supported with the steps below.

https://support.okta.com/help/s/article/Okta-Ideas-Overview-FAQ?language=en_US

Please let me know if you require any further assistance or have any further questions.

Open IAM ticket content is given below, however no response from their site:

OpenIAM TICKET: Universal Acceptance Readiness Support

OpenIAM is not supporting some Email Addresses International (EAIs) as given below, to register them in OpenIAM with Rest API call ([openiamhostname]/webconsole/rest/api/ /prov/saveUser).

To replicate the error please do 2-step requests:

Step 1: Request Access Token

OpenIAM version: 4.1.0.9, docker containers
Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
Request type: post
Body Format: x-www-form-urlencoded
Body:

```
   key: client_id;          value: ${client_id}
   key: client_secret;      value: ${client_secret}
   key: username;           value: ${username}
   key: password;           value: ${password}
   key: grant_type;         value: password
```

Response message:

```
{
   "access_token":
"PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
   "token_type": "Bearer",
   "expires_in": 1800
}
```

Copy <access_tocken> and <token_type> values from the response to use it in step 2

Step 2: Request to get register a new user

Email to register: [email_address] // for each email address failing given below
Postman URL: https://<IP_address>/webconsole/rest/api/prov/saveUser
Request type: post
Body Format: json
Headers:

```
   key: Authorization
   value: <token_type> <access_token>                //get from step 1
```

Body:

```
{
   "emailAddresses": [
      {
         "email": "[email_address]",
         "typeId": "PRIMARY_EMAIL",
         "published": true
      }
   ],
   "firstName": "ua-name",
   "lastName": "ua-name",
   "login": "[email_address]",
   "roleIds": null,
   "visible": true,
   "supervisorId": "3000",
   "supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
   "metadataTypeId": "DEFAULT_USER",
   "notifyUserViaEmail": false,
   "notifySupervisorViaEmail": false,
   "provisionOnStartDate": false
}
```

Response message:

```
{
   "primaryKey": null,
   "status": 500,
   "errorList": [
      {
         "i18nError": null,
         "error": "INVALID_EMAIL_ADDRESS",
         "validationError": null,
         "params": null,
         "message": "E-mail address has an invalid format"
      }
   ],
   "redirectURL": null,
   "successToken": null,
   "successMessage": null,
   "contextValues": null,
   "stackTrace": null,
   "possibleErrors": null,
   "error": true
}
```

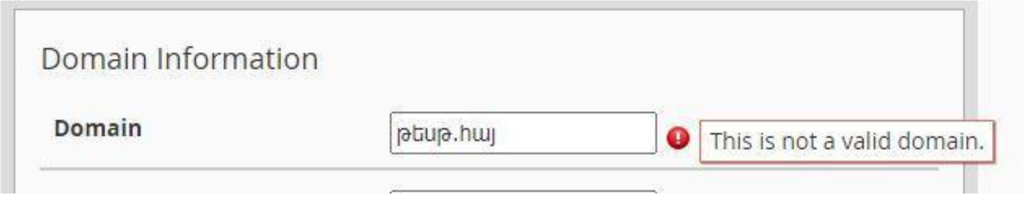
Below are the failing email addresses:
email-test تجربة-القبول-الشامل.موريتانيا@ 1
почта-тест1@универсальное-принятие-тест.москва
ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन
ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com
ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ
이메일테스트1@다국어도메인이용환경테스트.한국
email-épreuve1@épreuve-acceptation-universelle.org
ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം
تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا
ޓުސްޓެ-ކޭވުރުބޫދަ-ހެނިރު @1ޓުސްޓެ-ރުޫދރީ .com
电子邮件测试1@普遍适用测试.我爱你
மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்
ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్
อีเมลทดสอบ1@ยูเอทดสอบ.ไทย
སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com
電子郵件測試1@普遍適用測試.台灣

Issues identified on WHM (cPanel)

While creating a new account in WHM with IDN

1. Login to WHM
2. Go to Account Functions / Create a New Account
3. Type your IDN in Domain field of Domain Information section. ex. թեսթ.հայ

4. You will get an error: This is not a valid domain.

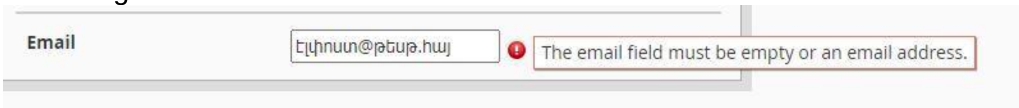


Domain Information

Domain: թեսթ.հայ — This is not a valid domain.

While creating a new email address in WHM (EAI)

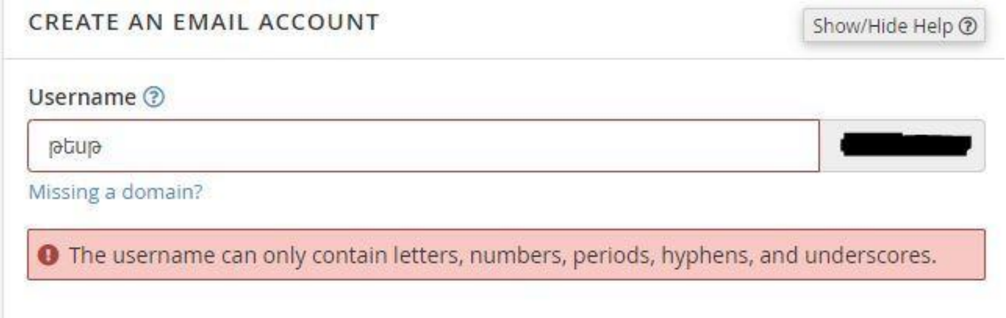
1 Login to WHM
2 Go to Account Functions / Create a New Account
3 Type your IDN email address in Domain Information section. ex. էլփոստ@թեսթ.հայ
4 You will get an error:



Email: էլփոստ@թեսթ.հայ — The email field must be empty or an email address.

Create a new email address

1. Login to cPanel
2. Go to Email -> Email accounts
3. Press +Create button
4. Type custom non-Latin letter in username field
5. You will get an error: The username can only contain letters, numbers, periods, hyphens, and underscores.



CREATE AN EMAIL ACCOUNT

Username: թեսթ [redacted]

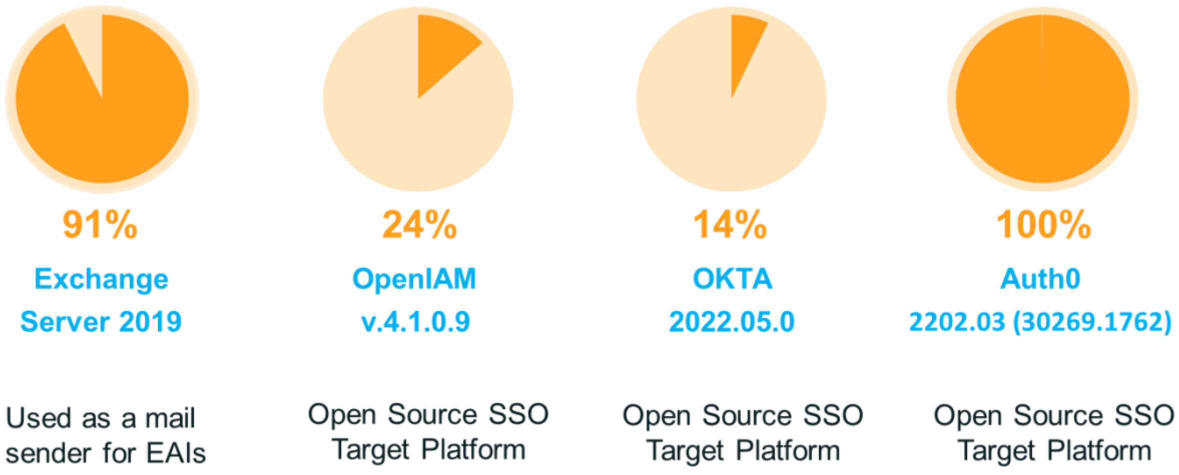
The username can only contain letters, numbers, periods, hyphens, and underscores.

Summary

UA-Readiness testing was run as automation tests as per the given workflow taking each email address from the predefined list as a test case with the following results:

1. As email addresses in general are not case-sensitive, therefore the given email address listed in position 22 (Email-Épreuve1@épreuve-acceptation-universelle.org) is matching to email addresses in a position of 9 (email-épreuve1@épreuve-acceptation-universelle.org). In our flow email at position 22 is identified as already a registered user. Therefore, in total we consider having 21 email addresses for reporting, by considering that email address 22 is a duplication.
2. Authentication platform **Auth0** passed all email address validations throughout the given test flow.
3. Authentication platform **OKTA** passed only 3 email address validations and failed in 18 email addresses.
4. Authentication platform **OpenIAM** passed only 5 email address validations and failed in 16 email addresses.
5. Microsoft **Exchange** unable to send out 2 email addresses by defining them invalid.

Below is given the chart about pass percentages for target platforms:



ANNEX 1

How to Reproduce the Errors

Below are steps on how to reproduce each reported failure and related parameter details.

Email #	EMAIL ADDRESS	ACTION	ERROR MESSAGE

2	էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ",
			"email": "էլփոստ-թեստ1@համընդհանուր-ընկալում-թեստ.հայ"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

3	email-test1@تجربة-القبول-	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user. OKTA User: developer@ihost.am

	الشامل.موريت
	انيا
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: email-test1@تجربة-القبول-الشامل.موريتانيا
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "email-test1@تجربة-القبول-الشامل.موريتانيا ",
			"email": " email-test1@تجربة-القبول-الشامل.موريتانيا "
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

3	email- test1@تجر بة-القبول- الشامل.موريت انيا	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests: ***Step 1:*** Request Access Token OpenIAM version: 4.1.0.9, docker containers Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server Request type: post Body Format: x-www-form-urlencoded Body: key: client_id; value: ${client_id} key: client_secret; value: ${client_secret} key: username; value: ${username} key: password; value: ${password} key: grant_type; value: password Response message: { "access_token":

			"PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: email-test1@تجربة-القبول-الشامل.موريتانيا
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "email-test1@تجربة-القبول-الشامل.موريتانيا",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "email-test1@تجربة-القبول-الشامل.موريتانيا",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,

			"successToken": **null**, "successMessage": **null**, "contextValues": **null**, "stackTrace": **null**, "possibleErrors": **null**, "error": **true** }
4	почта-тест1@универсальное-принятие-тест.москва	Send Invitation email (using MS Exchange)	Exchange Server version: Windows Server 2019 1809 Build 10.0.17763S.2989 Email address (send to): почта-тест1@универсальное-принятие-тест.москва Exchange Error message: “A problem occurred and this message couldn't be delivered. Check to be sure the email address is correct. If the problem continues, please contact your email admin. Original message headers: DKIM-Signature: v=1; a=rsa-sha256; d=termo-ar.am; s=dec2022; c=simple/simple; t=1671609827; h=from:subject:to:date:message-id; bh=9HgLSu9co7jx4HzNuLoscAW3Bm4ODz9AhP+b4ceiUnQ=; b=NKNL6jvj1ooTKYLU2TgCI7MuMnOoaOyW+zL0XmYQB64B8U C0ryWGJfZXVtFguOTYC6wj5xbEEZn xLfv8pfyeG8Y6OqcAqyIlvviWKt2NCsxNSGidWevrjfDWWJLKfiOM RB5bUXsQ5bP8vmXqcYYdSHoG ZlCzz5PwyCycb4m0RK3Xciy3/DNu5BzEdNG5gdBf8ZvneNDTcqG Hygz2yIC1m87LakJdDXau4Yr2C 0zHd0qrg+yaie+Z08x0b1zJwqNeSj47O3zyZIad6Iqvk7XBqCuG9U BOdqw2grc3Tutj6vo147334a 6THL2fP4d5UH1BdBPeRsw2apJJd7Dd+wtNXw== Received: from 68293bbaf18b (10.50.0.1) by tar-mail.termo-ar.am (10.50.0.2) with Microsoft SMTP Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.2.1118.7; From: HyeConnect <Hyeconnect@termo-ar.am> To: почта-тест1@универсальное-принятие-тест.москва Message-ID: <438945957.31.1671606068631@68293bbaf18b> Subject: You Are Invited to Join HyeConnect! MIME-Version: 1.0 Content-Type: text/html; charset="UTF-8" Content-Transfer-Encoding: quoted-printable List-Unsubscribe: https://hyeconnect.org/unsubscribe Return-Path: Hyeconnect@termo-ar.am X-Originating-IP: [10.50.0.1] X-ClientProxiedBy: tar-mail.termo-ar.am (10.50.0.2) To tar-mail.termo-ar.am (10.50.0.2)”
4	почта-тест1@универсальное-принятие-тест.москва	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user. OKTA User: developer@ihost.am OKTA Sign-in URL: dev-25957965.okta.com Email to register: почта-тест1@универсальное-принятие-тест.москва Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false Post Type: post Header Key: Authorization Header Value: SSWS ${API token} Postman Body: body

			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "почта-тест1@универсальное-принятие-тест.москва",
			"email": "почта-тест1@универсальное-принятие-тест.москва"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

4	почта-тест1@универсальное-принятие-тест.москва	Register a new user in OpenIAM	The email doesn't passes OpenIAM's internal validation to register a new user. To replicate the error please perform 2-step API requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, Docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM Local Server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the given response to use them in step 2

			Step 2: Request to get register a new user
			Email to register: почта-тест1@универсальное-принятие-тест.москва
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers: key: Authorization
			value: <token_type> <access_token>
			//get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "почта-тест1@универсальное-принятие-тест.москва",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "почта-тест1@универсальное-принятие-тест.москва",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,

			"error": **true** }

5	ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन",
			"email": "ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",
			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

5	ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-	Register a new user in OpenIAM	The email doesn't passes OpenIAM's internal validation to register a new user. To replicate the error please perform 2-step API requests: ***Step 1:*** Request Access Token OpenIAM version: 4.1.0.9, Docker containers

	परीक्षण.संगठन		Postman Call: https://<IP_address>/idp/oauth2/token
			//OpenIAM Local Server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the given response to use them in step 2
			
			Step 2: Request to get register a new user
			Email to register: ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers: key: Authorization
			value: <token_type> <access_token>
			//get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "ईमेल-परीक्षण1@सार्वभौमिक-स्वीकृति-परीक्षण.संगठन",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}

			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

6	ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com",
			"email": "ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",

			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

6	ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com	Register a new user in OpenIAM	The email doesn't passes OpenIAM's internal validation to register a new user. To replicate the error please perform 2-step API requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, Docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM Local Server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the given response to use them in step 2
			
			Step 2: Request to get register a new user
			Email to register: ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers: key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "ኢሜይል-ሙከራ1@ሁለንአቀፍ-ተቀባይነት-ሙከራ.com",

			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

7	ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",

			"lastName": "Test",
			"use_mfa": false,
			"login": "ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ",
			"email": "ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

7	ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ
			Postman URL: https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:

			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "ηλεκτρονικό-μήνυμα-δοκιμή1@καθολική-αποδοχή-δοκιμή.ευ",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

8	이메일테스트1@다국어도메인이	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user. OKTA User: developer@ihost.am OKTA Sign-in URL: dev-25957965.okta.com

	용환경테스트.한국		Email to register:
			이메일테스트1@다국어도메인이용환경테스트.한국
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			    "credentials": {
			        "password": {
			            "value": "tertr7WWte"
			        }
			    },
			    "profile": {
			        "firstName": "Second",
			        "lastName": "Test",
			        "use_mfa": false,
			        "login": "이메일테스트1@다국어도메인이용환경테스트.한국",
			        "email": "이메일테스트1@다국어도메인이용환경테스트.한국"
			    }
			}
			Response Message:
			{
			    "errorCode": "E0000001",
			    "errorSummary": "Api validation failed: email",
			    "errorLink": "E0000001",
			    "errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			    "errorCauses": [
			        {
			            "errorSummary": "email: Does not match required pattern"
			        }
			    ]
			}

8	이메일테스트1@다국어도메인이용환경테스트.한국	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests: ***Step 1:*** Request Access Token OpenIAM version: 4.1.0.9, docker containers Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server Request type: post Body Format: x-www-form-urlencoded Body: key: client_id; value: ${client_id} key: client_secret; value: ${client_secret} key: username; value: ${username} key: password; value: ${password} key: grant_type; value: password Response message:

```
{
   "access_token":
"PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yf
AxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
   "token_type": "Bearer",
   "expires_in": 1800
}
```

Copy <access_tocken> and <token_type> values from the response to use it in step 2

Step 2: Request to get register a new user

Email to register:

이메일테스트1@다국어도메인이용환경테스트.한국

Postman URL:

https://<IP_address>/webconsole/rest/api/prov/saveUser

Request type: post

Body Format: json

Headers:

```
   key: Authorization
   value: <token_type> <access_token>          //get from step 1
```

Body:

```
{
   "emailAddresses": [
      {
         "email":
"이메일테스트1@다국어도메인이용환경테스트.한국",
         "typeId": "PRIMARY_EMAIL",
         "published": true
      }
   ],
   "firstName": "ua-name",
   "lastName": "ua-name",
   "login": "이메일테스트1@다국어도메인이용환경테스트.한국",
   "roleIds": null,
   "visible": true,
   "supervisorId": "3000",
   "supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
   "metadataTypeId": "DEFAULT_USER",
   "notifyUserViaEmail": false,
   "notifySupervisorViaEmail": false,
   "provisionOnStartDate": false
}
```

Response message:

```
{
   "primaryKey": null,
   "status": 500,
   "errorList": [
      {
         "i18nError": null,
         "error": "INVALID_EMAIL_ADDRESS",
         "validationError": null,
```

			"params": **null**, "message": "E-mail address has an invalid format" }], "redirectURL": **null**, "successToken": **null**, "successMessage": **null**, "contextValues": **null**, "stackTrace": **null**, "possibleErrors": **null**, "error": **true** }

9	email-épreuve1@épreuve-acceptation-universelle.org	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: email-épreuve1@épreuve-acceptation-universelle.org
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "email-épreuve1@épreuve-acceptation-universelle.org",
			"email": "email-épreuve1@épreuve-acceptation-universelle.org"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

9	email-épreuve1@épreuve-acceptation-universelle.org	Register a new user in OpenIAM	The email doesn't pass OpenIAM’s internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: email-épreuve1@épreuve-acceptation-universelle.org
			Postman URL: https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "email-épreuve1@épreuve-acceptation-universelle.org",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "email-épreuve1@épreuve-acceptation-universelle.org",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",

			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

10	Email-test1@universales-akzeptanz-test.vermögensberatung	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: Email-test1@universales-akzeptanz-test.vermögensberatung
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "Email-test1@universales-akzeptanz-test.vermögensberatung",

			"email": "Email-test1@universales-akzeptanz-test.vermögensberatung"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

11	ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": " ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം ",
			"email": " ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം "
			}
			}
			Response Message:
			
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",

			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

11	ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം	Register a new user in OpenIAM	The email doesn't pass OpenIAM’s internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം
			Postman URL: https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": " ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം",

			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": " ഇമെയിൽ-പരിശോധന1@സാർവത്രിക-സ്വീകാര്യതാ-പരിശോധന.ഭാരതം",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

14	تجربة-بريد-الكترونى1@تجربة-القبول-الشامل.موريتانيا	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user. OKTA User: developer@ihost.am OKTA Sign-in URL: dev-25957965.okta.com Email to register: تجربة-بريد-الكترونى1@تجربة-القبول-الشامل.موريتانيا Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false Post Type: post Header Key: Authorization Header Value: SSWS ${API token} Postman Body: body {

			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "تجربة-بريد-الكترونى1@تجربة-القبول-الشامل.موريتانيا",
			"email": "تجربة-بريد-الكترونى1@تجربة-القبول-الشامل.موريتانيا"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

14	تجربة-بريد-الكترونى1@تجربة-القبول-الشامل.موريتانيا	Register a new user in OpenIAM	The email doesn't pass OpenIAM’s internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user

			Email to register: تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "تجربة-بريد-الكتروني1@تجربة-القبول-الشامل.موريتانيا",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

15	ދީދޭލު-ޓެސްޓު1@ދުނިޔެ-ގަބޫލުކުރާ-ޓެސްޓު.com	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ދީދޭލު-ޓެސްޓު1@ދުނިޔެ-ގަބޫލުކުރާ-ޓެސްޓު.com
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "ދީދޭލު-ޓެސްޓު1@ދުނިޔެ-ގަބޫލުކުރާ-ޓެސްޓު.com",
			"email": "ދީދޭލު-ޓެސްޓު1@ދުނިޔެ-ގަބޫލުކުރާ-ޓެސްޓު.com"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",
			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

15	ދީދޭލު-ޓެސްޓު1@ދުނިޔެ-ގަބޫލުކުރާ-ޓެސްޓު.com	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests: ***Step 1:*** Request Access Token OpenIAM version: 4.1.0.9, docker containers Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server Request type: post Body Format: x-www-form-urlencoded Body: key: client_id; value: ${client_id}

			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: ުރީދޭގ-ުޓެސްޓ1@ެގުނިހ-ާޔަޖޫގުކުޗ-ުޓެސްޓ.com
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "ުރީދޭގ-ުޓެސްޓ1@ެގުނިހ-ާޔަޖޫގުކުޗ-ުޓެސްޓ.com",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "ުރީދޭގ-ުޓެސްޓ1@ެގުނިހ-ާޔަޖޫގުކުޗ-ުޓެސްޓ.com",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{

			"i18nError": **null**, "error": "INVALID_EMAIL_ADDRESS", "validationError": **null**, "params": **null**, "message": "E-mail address has an invalid format" }], "redirectURL": **null**, "successToken": **null**, "successMessage": **null**, "contextValues": **null**, "stackTrace": **null**, "possibleErrors": **null**, "error": **true** }

16	电子邮件测试1@普遍适用测试.我爱你	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: 电子邮件测试1@普遍适用测试.我爱你
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "电子邮件测试1@普遍适用测试.我爱你",
			"email": "电子邮件测试1@普遍适用测试.我爱你"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}

			] }

16	电子邮件测试1@普遍适用测试.我爱你	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: 电子邮件测试1@普遍适用测试.我爱你
			Postman URL: https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "电子邮件测试1@普遍适用测试.我爱你",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "电子邮件测试1@普遍适用测试.我爱你",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",

			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

17	மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்	Send Invitation	Exchange Server version: Windows Server 2019 1809 Build 10.0.17763S.2989 Email address (send to): மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர் Exchange Error message: “A problem occurred and this message couldn't be delivered. Check to be sure the email address is correct. If the problem continues, please contact your email admin. Original message headers: DKIM-Signature: v=1; a=rsa-sha256; d=termo-ar.am; s=dec2022; c=simple/simple; t=1671609827; h=from:subject:to:date:message-id; bh=9HgLSu9co7jx4HzNuLoscAW3Bm4ODz9AhP+b4ceiUnQ=; b=NKNL6jvj1ooTKYLU2TgCI7MuMnOoaOyW+zL0XmYQB64B8U C0ryWGJfZXVtFguOTYC6wj5xbEEZn xLfv8pfyeG8Y6OqcAqyIlvviWKt2NCsxNSGidWevrjfDWWJLKfiOM RB5bUXsQ5bP8vmXqcYYdSHoG ZlCzz5PwyCycb4m0RK3Xciy3/DNu5BzEdNG5gdBf8ZvneNDTcqG Hygz2yIC1m87LakJdDXau4Yr2C 0zHd0qrg+yaie+Z08x0b1zJwqNeSj47O3zyZIad6Iqvk7XBqCuG9U BOdqw2grc3Tutj6vo147334a 6THL2fP4d5UH1BdBPeRsw2apJJd7Dd+wtNXw== Received: from 68293bbaf18b (10.50.0.1) by tar-mail.termo-ar.am (10.50.0.2) with Microsoft SMTP Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.2.1118.7; From: HyeConnect <Hyeconnect@termo-ar.am> To:

			மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர் Message-ID: <438945957.31.1671606068631@68293bbaf18b> Subject: You Are Invited to Join HyeConnect! MIME-Version: 1.0 Content-Type: text/html; charset="UTF-8" Content-Transfer-Encoding: quoted-printable List-Unsubscribe: https://hyeconnect.org/unsubscribe Return-Path: Hyeconnect@termo-ar.am X-Originating-IP: [10.50.0.1] X-ClientProxiedBy: tar-mail.termo-ar.am (10.50.0.2) To tar-mail.termo-ar.am (10.50.0.2)”

17	மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்",
			"email": "மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",
			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}

			] }

17	மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "மின்னஞ்சல்-சோதனை1@பொது-ஏற்பு-சோதனை.சிங்கப்பூர்",
			"roleIds": null,

			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

18	ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్
			
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,

			"login": "ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్",
			"email": "ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",
			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

18	ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxluqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json

			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "ఇమెయిల్-పరీక్ష1@యూనివర్సల్-ఆమోదం-పరీక్ష.భారత్",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

19	อีเมลทดสอบ1@ยูเอทดสอบ.ไทย	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user. OKTA User: developer@ihost.am OKTA Sign-in URL: dev-25957965.okta.com Email to register: อีเมลทดสอบ1@ยูเอทดสอบ.ไทย

			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			    "credentials": {
			        "password": {
			            "value": "tertr7WWte"
			        }
			    },
			    "profile": {
			        "firstName": "Second",
			        "lastName": "Test",
			        "use_mfa": false,
			        "login": "อีเมลทดสอบ1@ยูเอทดสอบ.ไทย",
			        "email": "อีเมลทดสอบ1@ยูเอทดสอบ.ไทย"
			    }
			}
			Response Message:
			{
			    "errorCode": "E0000001",
			    "errorSummary": "Api validation failed: login",
			    "errorLink": "E0000001",
			    "errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			    "errorCauses": [
			        {
			            "errorSummary": "login: Username must be in the form of an email address"
			        },
			        {
			            "errorSummary": "email: Does not match required pattern"
			        }
			    ]
			}

19	อีเมลทดสอบ1@ยูเอทดสอบ.ไทย	Register a new user in OpenIAM	The email doesn't pass OpenIAM's internal validation to register a new user. To replicate the error please do 2-step requests: ***Step 1:*** Request Access Token OpenIAM version: 4.1.0.9, docker containers Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server Request type: post Body Format: x-www-form-urlencoded Body: key: client_id; value: ${client_id} key: client_secret; value: ${client_secret} key: username; value: ${username} key: password; value: ${password} key: grant_type; value: password Response message:

			{
			    "access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxluqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			    "token_type": "Bearer",
			    "expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: อีเมลทดสอบ1@ยูเอทดสอบ.ไทย
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			    key: Authorization
			    value: <token_type> <access_token> //get from step 1
			Body:
			{
			    "emailAddresses": [
			        {
			            "email": "อีเมลทดสอบ1@ยูเอทดสอบ.ไทย",
			            "typeId": "PRIMARY_EMAIL",
			            "published": true
			        }
			    ],
			    "firstName": "ua-name",
			    "lastName": "ua-name",
			    "login": "อีเมลทดสอบ1@ยูเอทดสอบ.ไทย",
			    "roleIds": null,
			    "visible": true,
			    "supervisorId": "3000",
			    "supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			    "metadataTypeId": "DEFAULT_USER",
			    "notifyUserViaEmail": false,
			    "notifySupervisorViaEmail": false,
			    "provisionOnStartDate": false
			}
			
			Response message:
			{
			    "primaryKey": **null**,
			    "status": 500,
			    "errorList": [
			        {
			            "i18nError": **null**,
			            "error": "INVALID_EMAIL_ADDRESS",
			            "validationError": **null**,
			            "params": **null**,
			            "message": "E-mail address has an invalid format"
			        }

			], "redirectURL": **null**, "successToken": **null**, "successMessage": **null**, "contextValues": **null**, "stackTrace": **null**, "possibleErrors": **null**, "error": **true** }

20	གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": " གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com",
			"email": " གློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com"
			}
			}
			Response Message:
			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: login",
			"errorLink": "E0000001",
			"errorId": "oaeFs250oz-Rp-_aoknl-T_MQ",
			"errorCauses": [
			{
			"errorSummary": "login: Username must be in the form of an email address"
			},
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

20	སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com	Register a new user in OpenIAM	The email doesn't pass OpenIAM’s internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token //OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token": "PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": " སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com",
			"typeId": "PRIMARY_EMAIL",
			"published": true
			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": " སློག་འཕྲིན་བརྟག་དཔྱད1@ཡོངས་ཁྱབ་ངོས་ལེན་བརྟག་དཔྱད.com",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,

			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

21	電子郵件測試1@普遍適用測試.台灣	Register a new user in OKTA	The email doesn't pass OKTA's internal validation to register a new user.
			OKTA User: developer@ihost.am
			OKTA Sign-in URL: dev-25957965.okta.com
			Email to register: 電子郵件測試1@普遍適用測試.台灣
			Postman Call: https://dev-25957965.okta.com/api/v1/users?provider=false
			Post Type: post
			Header Key: Authorization
			Header Value: SSWS ${API token}
			Postman Body:
			body
			{
			"credentials": {
			"password": {
			"value": "tertr7WWte"
			}
			},
			"profile": {
			"firstName": "Second",
			"lastName": "Test",
			"use_mfa": false,
			"login": "電子郵件測試1@普遍適用測試.台灣",
			"email": "電子郵件測試1@普遍適用測試.台灣"
			}
			}
			Response Message:

			{
			"errorCode": "E0000001",
			"errorSummary": "Api validation failed: email",
			"errorLink": "E0000001",
			"errorId": "oaejsk7sbsaTwWoSGFbaMO50g",
			"errorCauses": [
			{
			"errorSummary": "email: Does not match required pattern"
			}
			]
			}

21	電子郵件測試1@普遍適用測試.台灣	Register a new user in OpenIAM	The email doesn't pass OpenIAM’s internal validation to register a new user. To replicate the error please do 2-step requests:
			Step 1: Request Access Token
			OpenIAM version: 4.1.0.9, docker containers
			Postman Call: https://<IP_address>/idp/oauth2/token
			//OpenIAM local server
			Request type: post
			Body Format: x-www-form-urlencoded
			Body:
			key: client_id; value: ${client_id}
			key: client_secret; value: ${client_secret}
			key: username; value: ${username}
			key: password; value: ${password}
			key: grant_type; value: password
			Response message:
			{
			"access_token":
			"PTpmh2.cCwkAYAQXb7rXL_Y7BdlOajBOt0lPve6274Sb3BW07yfAxIuqkfVrMnvWV.kOUVFSSgJmgT-DvCD3sjtL3gqN18",
			"token_type": "Bearer",
			"expires_in": 1800
			}
			Copy <access_tocken> and <token_type> values from the response to use it in step 2
			
			Step 2: Request to get register a new user
			Email to register: 電子郵件測試1@普遍適用測試.台灣
			Postman URL:
			https://<IP_address>/webconsole/rest/api/prov/saveUser
			Request type: post
			Body Format: json
			Headers:
			key: Authorization
			value: <token_type> <access_token> //get from step 1
			Body:
			{
			"emailAddresses": [
			{
			"email": "電子郵件測試1@普遍適用測試.台灣 ",
			"typeId": "PRIMARY_EMAIL",
			"published": true

			}
			],
			"firstName": "ua-name",
			"lastName": "ua-name",
			"login": "電子郵件測試1@普遍適用測試.台灣 ",
			"roleIds": null,
			"visible": true,
			"supervisorId": "3000",
			"supervisorMetadataTypeId": "DEF_SUPERVISOR_TYPE",
			"metadataTypeId": "DEFAULT_USER",
			"notifyUserViaEmail": false,
			"notifySupervisorViaEmail": false,
			"provisionOnStartDate": false
			}
			
			Response message:
			{
			"primaryKey": **null**,
			"status": 500,
			"errorList": [
			{
			"i18nError": **null**,
			"error": "INVALID_EMAIL_ADDRESS",
			"validationError": **null**,
			"params": **null**,
			"message": "E-mail address has an invalid format"
			}
			],
			"redirectURL": **null**,
			"successToken": **null**,
			"successMessage": **null**,
			"contextValues": **null**,
			"stackTrace": **null**,
			"possibleErrors": **null**,
			"error": **true**
			}

22	Email-Épreuve1@épreuve-acceptation-universelle.org	Send Invitation	Error when send invitation: User already has a profile