

Test Plan and Pilot Study of UASG Acceptance in CMS

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1. Revision and Signoff Sheet

1.1. Document History

Version	Date	Author	Description of Change
Draft	16 th Nov 2020	Ms. Pranali Mahale	Initial Draft
1.0	23 rd Nov 2020	Mahesh Kulkarni	Revision
2.0	17 th Dec 2020	Mahesh Kulkarni	<ul style="list-style-type: none"> • Added criteria of selection of plugins • Software version changes in Section 5. Software specifications • Section 14 email address part updated

1.2. Approvers List

Name	Role	Approver / Reviewer	Approval / Review Date
Mohamed Elbashir	UA Program Manager, ICANN	Approver	

2. Objective

To measure the state of UA-readiness in Content Management System, namely WordPress and its associated plugins, shown below



The selection of the above-mentioned plugins under the “Test Plan” were made on the basis of Work Item: Test Plan and Pilot Study of Universal Acceptance in Content Management Systems, 2020 Ver.: 2020-08-07 released by Universal Acceptance Steering Group.

Extension 1, Subscription Management: An extension that uses an email address of a subscriber to send newsletters or similar communications via email. Accordingly, five newsletter management extensions, namely, MailChimp, Mailster, OptinMonster, Newsletter, and Sumo List Builder are selected for testing of UA readiness

Extension 2, Membership Management: An extension whose purpose is to enable/disable access to certain pages (i.e., membership-only section). Accordingly, five membership management extensions namely, Memberpress, WooCommerce Memberships, Restrict ContentPro, Paid Memberships Pro, and S2Member are selected for testing of UA readiness.

Extension 3, Event Management: An extension that is used to create and manage events with participant list management. Accordingly, five Event Management extensions, namely, Events Manager, WP Event Manager, Event Organizer, All-in-One Event Calendar, Event Espresso 4 Decaf (See References: Event Management) are selected for testing of UA readiness

3. Audience

The Target User of this test is

- A user who wants to have knowledge of UA readiness of self-hosted CMS and associated plugins.
- UASG Team to determine potential next steps for remediations and UA Tech WG on a mitigation plan to address any deficiencies

4. Test Setup

Self-hosted WordPress (version 5.6) installation and plugins on “Google Cloud Platform (GCP)” to be carried out as per installation instructions available on respective website

1. Basic WordPress installation
2. Plugin installation, as the case may be
 - WordPress marketplace
 - Download from plugin site and uploading in WordPress
 - Downloading from third party site and uploading in WordPress

5. Software specifications

Server	Linux instance
OS	Ubuntu 18.04.1
DB	MySQL - 5.7.32
Apache	2.4.29
PHP	7.4.13

Client	Chrome Browser running on Windows 10
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6. ICANN Testbed

Registered and functional Domain names, Path Cases (IRIs) and e-mail addresses as provided by ICANN as per UASG004

7. Setting up the functionalities

Setting up following functionalities using plugin(s) from respective extensions

7.1. Subscription management:

Using an email address of a subscriber to send newsletters or similar communications via email.

7.2. Membership management:

Enable/disable access to certain pages (i.e. membership-only section).

7.3. Event management:

Create and manage events with participant list management

8. Reference documents:

8.1. UASG004

8.2. UASG0026

9. Test Cases and Test Datasets

As per UASG004 document for Domain names, Path cases (IRIs) and e-mail addresses.

10. Functional Test:

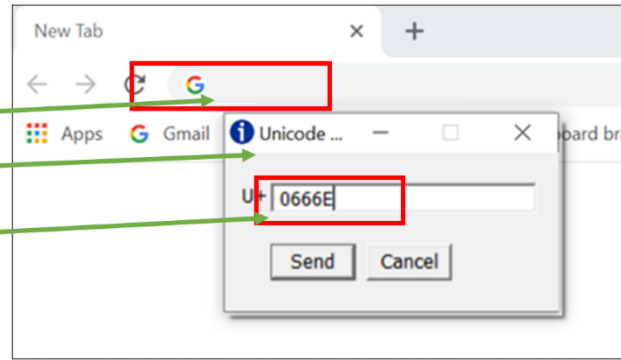
As per Universal Acceptance Readiness Framework (UASG026) for “Web-based applications”

- 10.1. Accept Test (AT)
- 10.2. Validate Test (VT)
- 10.3. Process on Input (P1T)
- 10.4. Store Test (ST)
- 10.5. Process on Output (P2T) and
- 10.6. Display Test (DT)

11. Tools / utilities

1. Specific language(s) pack for Windows 10, if required may be installed.
2. Freeware Unicode character inputting utility, namely “UnicodeInput Utility” (unicodeinput.exe) from <https://www.fileformat.info/tool/unicodeinput/index.htm>. For inputting Unicode characters run the utility “unicodeinput.exe” as shown in figure below and use equivalent Unicode code points (U+XXXX) mentioned in column III of the table(s) in Annexure-I. Use system keyboard for ASCII characters inputting.

- a RUN : unicodeinput.exe
- b Focus cursor where one need to input
- c Press left "Alt" and "+" keys
Box will appear as shown
- d Enter 666E – Unicode value as shown and press "send" button
- e Verify if the character appears as per the Unicode value
- f Similarly enter and verify all the Unicode characters and shapes as below. For ASCII characters such as "-" below may like to enter directly through keyboard



普

U+666E U+904D U+63A5 U+53D7- U+6D4B U+8BD5 U+3002 U+4E16 U+754C

g

普遍接受-测试。世界

12. Test methodology

1. WordPress 5.6 UA readiness:
 - o Install WordPress 5.6
 - o Create test page(s) using WordPress 5.6 website builder with its default theme: Twenty Twenty-One.
 - o Carry out UA readiness (for Domain names, e-mail addresses & Path IRIs) test with provided dataset as per column II of the table(s) in Annexure-I
2. Create functionalities as mentioned in point no. 4 by installing the plugins from respective extensions
 - o Locate the URL, e-mail fields (if any) provided by the plugin
 - o Carry out UA readiness (for Domain names, e-mail addresses & Path IRIs) test with provided dataset as per column II of the table(s) in Annexure-I

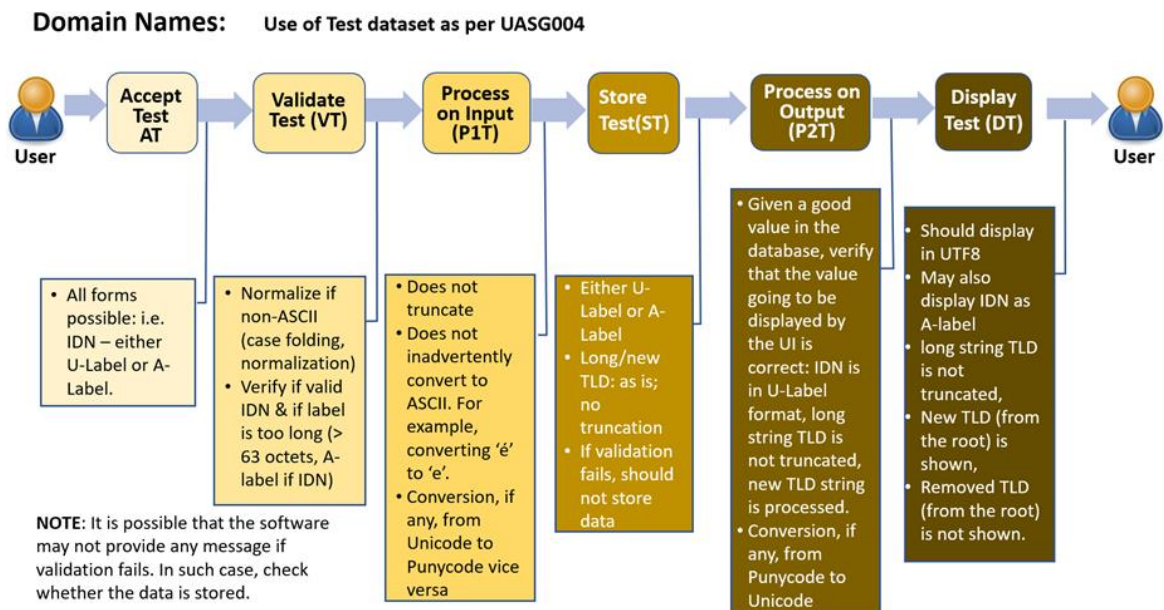
13. Test fields

Prior to test execution identify test fields as below.

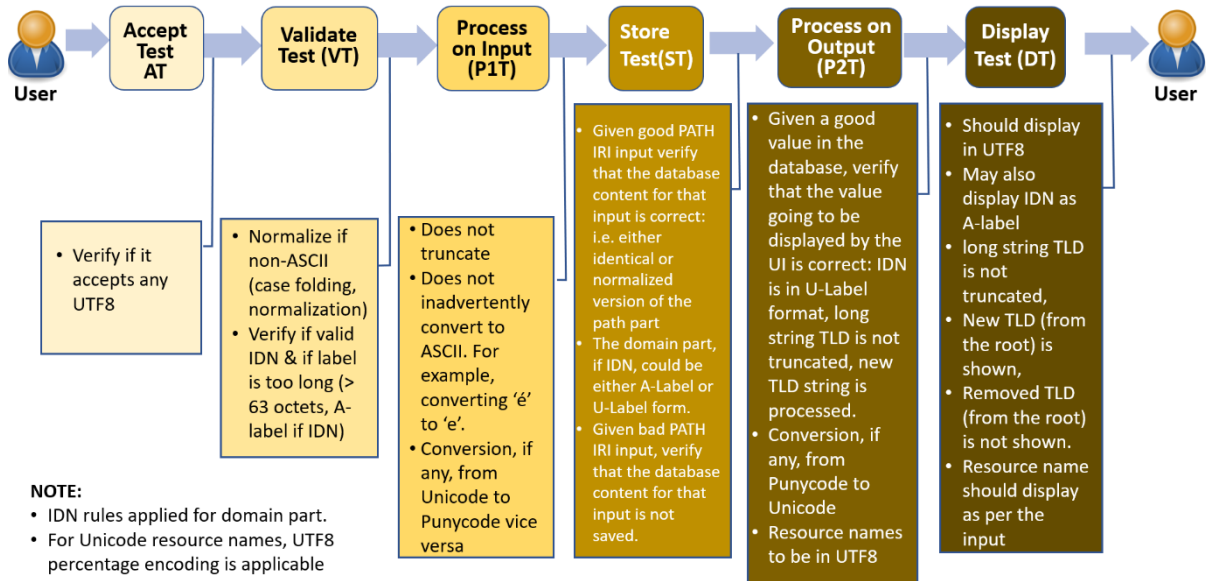
SN (i)	Name of the Component (ii)	Category (iii)	Applicability (Yes / No) (iv)	Remarks, if any (v)
1	WordPress			
	Version 5.6	Domain Names		
		Path Cases		
		e-mail addresses		
2	Extension			
	a) Plugin name Version: xxxx	Domain Names		
		Path Cases		
		e-mail addresses		

14. Test benchmark

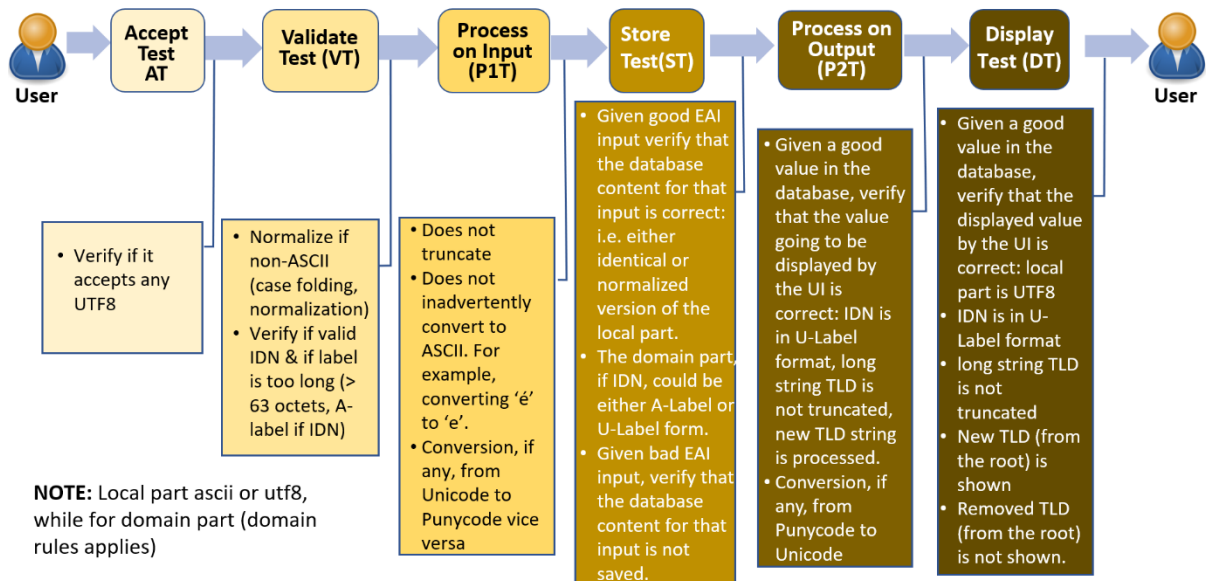
The testing to be carried out as per the test benchmark mentioned below (May like to refer Annexure-IV as well):



PATH IRIS: Use of Test dataset as per UASG004



e-Mail Addresses: Use of Test dataset as per UASG004



Wherever Plugin have facility to configure mail settings, SMTPUTF8 supported mailer need to be configured for testing EAI

15. End to end testing

1. For testing UA readiness of end to end subscription management component:

Create newsletter and using an email address of a subscriber send newsletters or similar communications via email. Provide link of domain names in the newsletter

or other communication. for this use e-mail addresses and domain names as per UASG004

2. *For testing UA readiness of end-to-end Membership management component:*
Create membership functionality with enable/disable access to certain pages (i.e. membership-only section), use Path IRIs as per UASG004
3. *For testing UA readiness of end-to-end event management component:*
Create event management functionality with participant list and send event related communications via email, use e-mail addresses as per UASG004

16. Inclusive criteria:

UA readiness of WordPress and associated plugins with respect to proper functioning of domain names, Path IRI and e-mail addresses as per UASG004

17. Exclusive criteria

- WordPress or associated plugins features.
- Each and every URL, email field(s) of the plugin or WordPress

18. Recording of observations

1. Recording of the testing observations as per the template provided in Annexure-II
2. Summary of testing as per template provided in Annexure-III

19. UA Readiness levels definition

For WordPress and plugins, the UA Readiness will be assessed and given levels as below (to be recorded in the template provided in Annexure-III)

- A – Level:** End to end and all “Type of Tests” passed
- B – Level:** End to end is passed, but one or more “Type of Tests” failed
- C1 - Level:** End to end failed, but all the “Types of Tests” except final “Display” test passed
- C2 - Level:** End to end failed, but ACCEPT, VALIDATE test passed
- C3 - Level:** End to end failed, but ACCEPT test passed
- D – Level:** Nothing passed

Following aspects were considered while deciding on the levels of UA readiness.

Till Level C, some tests are passed, means Application shows some level of IDN/EAI awareness. The gradation within level C is done with this thought:

- C1 - Overall Application shows IDN/EAI awareness, only failed due to surface level display issues*
- C2 - Frontend shows systematic awareness, but deeper architecture needs reforms*
- C3 - Frontend shows awareness, but could be due to lack of overall validation, and deeper architecture needs reforms*

20. Report preparation

- The test observations recorded in the annexure - I & II, will be used for preparation of WordPress 5.6 & Plugin's UA readiness as per the levels (A, B, C1, C2, C3 & D) mentioned above.
- Any observations / deviation from recommended practices will be recorded in the comment's column of the tables of Annexure -I and II, which will be helpful in suggesting remediation, if any.
- Recommendations for evaluating other CMS applications.
- Preparation of Self-paced training material involving environment creation, installation of CMS and its associated plugin, test flow and process, datasets, actual testing screen shots for reference sake.

21. Milestone and Resources

	Date from to	No of resources **	Activity	Deliverables	Delivery Date
WK 1 ----- WK 2	4-Nov-20 to 17-Nov-20	3	Exploration of core functionalities of WordPress and each plugin	Plugin Study observations	
WK 3 ----- Wk4	18-Nov-20 to 2-Dec-20	2	Creation of Draft Test Plan	Test Plan document	27-Nov-20
WK 5	3-Dec-20 to 9-Dec-20	2	Test Plan Approval Feedback from ICANN	Approval	8-Dec-20
WK 6 ----- WK 7 ----- WK 8 ----- WK 9	10-Dec-20 to 6-Jan-21 *	3	Execution of Test cases as per Test Plan /Suit	Draft Preliminary Test Case Observation Report	12-Jan-21
WK 10	7-Jan-21 to 13-Jan-21	2	Preparation of UA Readiness report	UA Readiness report to the UASG and UA Community	19-Jan-21
WK 11 ----- WK 12	14-Jan-21 to 27-Jan-21	3	Preparation of Self-paced training material	Training Material	2-Feb-21

* ICANN to provide registered and functional domain names, PATH IRIs and the active EAI accounts (with credentials) as per UASG004 prior to test plan approval date.

** Plus Project Management and Coordination Resources.

Annexure -I

Domain names

S N	Category (I)	Dataset (II)	Equivalent Unicode code points (U+XXXX) (III)	Equivalent Punycode (IV)
1	ascii.ascii	https://www.icann.org/	-	-
2	ascii.new	http://ua-test.link/	-	-
3	ascii.long	http://ua-test.technology/	-	-
4	idn.ascii	普遍接受-测试.top	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.top	xn----f38am99bqvcd5liy1cxsg.top
5	ascii.idn	ua-test.世界	ua-test.U+4E16 U+754C	ua-test.xn--rhqv96g
6	idn.idn	普遍接受-测试.世界	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.U+4E16 U+754C	xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g
7	idn-open dot-idn	普遍接受-测试。世界	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5 U+3002 U+4E16 U+754C	xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g
8	ascii.punycode	ua-test.xn--rhqv96g	ua-test.U+4E16 U+754C	-
9	punycode.ascii	xn---- f38am99bqvcd5liy1cxsg.top	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.top	-
10	punycode.punycode	xn---- f38am99bqvcd5liy1cxsg.xn--rhqv96g	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.U+4E16 U+754C	-
11	ascii.RTL			
12	RTL.ascii	اختبار-القبولالعالمي.top/	U+0627 U+062E U+062A U+0628 U+0627 U+0631-U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A.top	xn---- ymcabaacdn3byb2g4e1acbc54c7b.top
13	RTL.RTL	اختبار-القبولالعالمي.شبكة	U+0627 U+062E U+062A U+0628 U+0627 U+0631-U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A.U+0634 U+0628 U+0643 U+0629	xn---- ymcabaacdn3byb2g4e1acbc54c7b.xn--ngbc5azd

PATH IRIs

S N	Category (I)	Dataset (II)	Equivalent Unicode code points (U+XXXX) (III)	Equivalent Punycode of Domain name (IV)
1	ascii.ascii/Unicode			
2	ascii.new/unicode	ua-test.link/我的页面	ua-test.link/U+6211 U+7684 U+9875 U+9762	
3	ascii.long/unicode	ua-test.technology/我的页面	ua-test.technology/U+6211 U+7684 U+9875 U+9762	
4	idn.ascii/unicode	普遍接受-测试.top/我的页面	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.top/U+6211 U+7684 U+9875 U+9762	xn----f38am99bqvcd5liy1cxsg.top/我的页面
5	ascii.idn/unicode	ua-test.世界/我的页面	ua-test.U+4E16 U+754C/U+6211 U+7684 U+9875 U+9762	ua-test.xn--rhqv96g/我的页面
6	idn.idn/unicode	普遍接受-测试.世界/我的页面	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5. U+4E16 U+754C/ U+6211 U+7684 U+9875 U+9762	xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g/我的页面
7	idn-open dot-idn/unicode	普遍接受-测试。世界/我的页面	U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5 U+3002 U+4E16 U+754C/U+6211 U+7684 U+9875 U+9762	xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g/我的页面
8	rtl.ascii/unicode	اختبار-القبولالعالمي.top/我的页面	U+0627 U+062E U+062A U+0628 U+0627 U+0631-U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A.top/U+6211 U+7684 U+9875 U+9762	xn----ymcabaacd3byb2g4e1acbc4c7b.top/我的页面
9	rtl.rtl/unicode	اختبار-القبولالعالمي.شبكة/我的页面	U+0627 U+062E U+062A U+0628 U+0627 U+0631-U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A. U+0634 U+0628 U+0643 U+0629/U+6211 U+7684 U+9875 U+9762	xn----ymcabaacd3byb2g4e1acbc4c7b.xn--ngbc5azd/我的页面

Email addresses

S N	Category (I)	Dataset (II)	Equivalent Unicode code points (U+XXXX) (III)	Equivalent Punycode for U-label (IV)
1	ascii@ascii.ascii			
2	ascii@ascii.new	Info1@ua-test.link		
3	ascii@Ascii.long	info2@ua-test.technology		
4	ascii@ldn.ascii	info3@普遍接受-测试.top	info3@U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.top	Info3@xn---f38am99bqvcd5liy1cxsg.top
5	ascii@ascii.idn	info4@ua-test.世界	info4@ua-test.U+4E16 U+754C	info4@ua-test.xn--rhqv96g
6	ascii@ldn.idn	info5@普遍接受-测试.世界	info5@U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5.U+4E16 U+754C	info5@xn---f38am99bqvcd5liy1cxsg.xn--rhqv96g
7		uasg.tech@डेटामेल.भारत with alias uasg.tech@datamail.in	uasg.tech@U+0921 U+093E U+091F U+093E U+092E U+0947 U+0932.U+092D U+093E U+0930 U+0924	uasg.tech@xn--c2bd4bq1db8d.xn--h2brj9c
8	ascii@ldn-open dot-idn	info5@普遍接受-测试。世界	info5@U+666E U+904D U+63A5 U+53D7-U+6D4B U+8BD5 U+3002 U+4E16 U+754C	info5@xn---f38am99bqvcd5liy1cxsg.xn--rhqv96g
9	ascii@ascii.punycode	Info4@ua-test.xn--rhqv96g (duplicate of ua-test.世界)		
10	ascii@Punycode.ascii	Info3@xn---f38am99bqvcd5liy1cxsg.top (duplicate of 普遍接受-测试.top)		
11	ascii@Punycode.punycode	Info5@xn---f38am99bqvcd5liy1cxsg.xn--rhqv96g (duplicate of 普遍接受-测试.世界)		
12	ascii@Ascii.RTL			

13	ascii@RTL.ascii	info6@القبولالعالمي.top	info6@U+062E U+062A U+0628 U+0627 U+0631-U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A.top	info6@xn----ymcabaacd3byb2g4e1acbc s4c7b.top
14	ascii@RTL.RTL	ascii@اختبار-القبولالعالمي.شبكة	ascii@ U+0627 U+062E U+062A U+0628 U+0627 U+0631- U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A. U+0634 U+0628 U+0643 U+0629	ascii@xn----ymcabaacd3byb2g4e1acbc s4c7b.xn--ngbc5azd
15	ascii@RTL.RTL	user@رسيل.السعودية	user@U+0631 U+0633 U+064A U+0644.U+0627 U+0644 U+0633 U+0639 U+0648 U+062F U+064A U+0629	user@xn--wgbe5cxa.xn--mgberp4a5d4ar
16	unicode@ascii.ascii			
17	unicode@ascii.new	测试1@ua-test.link	U+6D4B U+8BD51@ua-test.link	测试 1@ua-test.link
18	unicode@Ascii.long	测试2@ua-test.technology	U+6D4B U+8BD52@ua-test.technology	测试 2@ua-test.technology
19	unicode@ldn.ascii	测试3@普遍接受-测试.top	U+6D4B U+8BD53@ U+666E U+904D U+63A5 U+53D7- U+6D4B U+8BD5.top	测试 3@xn----f38am99bqvcd5liy1cxsg.top
20	unicode@ascii.idn	测试4@ua-test.世界	U+6D4B U+8BD54@ua-test. U+4E16 U+754C	测试 4@ua-test.xn--rhqv96g
21	unicode@ldn.idn	测试5@普遍接受-测试.世界	U+6D4B U+8BD55@ U+666E U+904D U+63A5 U+53D7- U+6D4B U+8BD5. U+4E16 U+754C	测试 5@ xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g
22		युएसजी@डेटामेल.भारत with alias uasg@datamail.in	U+092F U+0941 U+090F U+0905 U+0938 U+091C U+0940@ U+0921 U+093E U+091F U+093E U+092E U+0947 U+0932. U+092D U+093E U+0930 U+0924	युएसजी@ xn--c2bd4bq1db8d.xn--h2brj9c

23	Unicode@ldn-open dot-idn	测试5@普遍接受-测试.世界	U+6D4B U+8BD55@ U+666E U+904D U+63A5 U+53D7- U+6D4B U+8BD5 U+3002 U+4E16 U+754C	测试 5@xn---- f38am99bqvcd5liy1cxsg.xn-- rhqv96g
24	unicode@ascii.punycode	测试4@ua-test.xn--rhqv96g (duplicate of ua-test.世界)	U+6D4B U+8BD54@ua-test.xn--rhqv96g	测试 4@ua-test.xn--rhqv96g
25	unicode@Punycode.ascii	测试3@ xn---- f38am99bqvcd5liy1cxsg.top (duplicate of 普遍接受-测试.top)	U+6D4B U+8BD53@ xn---- f38am99bqvcd5liy1cxsg.top	测试 3@xn---- f38am99bqvcd5liy1cxsg.top
26	unicode@Punycode.punycode	测试5@ xn---- f38am99bqvcd5liy1cxsg.xn--rhqv96g (duplicate of 普遍接受-测试.世界)	U+6D4B U+8BD55@ xn---- f38am99bqvcd5liy1cxsg.xn--rhqv96g	测试 5@xn---- f38am99bqvcd5liy1cxsg.xn-- rhqv96g
27	unicode@Ascii.RTL			
28	unicode@RTL.ascii	测试6@القبولالعالمي.top	U+6D4B U+8BD56@ U+062E U+062A U+0628 U+0627 U+0631- U+0627 U+0644 U+0642 U+0628 U+0648 U+0644 U+0627 U+0644 U+0639 U+0627 U+0644 U+0645 U+064A.top	测试 6@xn---- ymcabaacd3byb2g4e1acbc s4c7b.top
29	unicode@RTL.RTL	دون@رسيل.السعودية	U+062F U+0648 U+0646@ U+0631 U+0633 U+064A U+0644. U+0627 U+0644 U+0633 U+0639 U+0648 U+062F U+064A U+0629	رسيل.السعودية@xn--ugb0cf
30	unicode@RTL.RTL	مستخدم@رسيل.السعودية	U+0645 U+0633 U+062A U+062E U+062F U+0645@ U+0631 U+0633 U+064A U+0644. U+0627 U+0644 U+0633 U+0639 U+0648 U+062F U+064A U+0629	رسيل.السعودية@xn-- pgbidn3ge

Annexure – II

Observation Template (Sample test)

<i>Plugin Name</i>		Mailster						
<i>Plugin Version</i>		2.4.14						
<i>Function to be tested</i>		e-mail addresses						
<i>Data Category as per UASG004</i>		Testing of Email ID category: ascii@ascii.ascii						
<i>Prerequisite</i>		1. Open WordPress website 2. Select required plugin page from admin dashboard.						
<i>Execution Date</i>		17 Nov 2020						
<i>UA Readiness level *</i>		A level - End to end and all "Type of Tests" passed						
<i>Conclusion: Mail has been delivered successfully using scenario ascii@ascii.ascii. So, end to end scenario is considered as pass.</i>								
<i>Screen shot reference</i>	<i>Test case no.</i>	<i>Test Objective</i>	<i>Steps</i>	<i>Input Data</i>	<i>Expected Output</i>	<i>Actual Result</i>	<i>Comments</i>	<i>Test Result</i>
1-2-E-1-1	1	Accept Test	1. Go to 'Subscribers' page 2. Click on 'Add New' 3. Enter mail id, first name and last name 4. Check 'Default List'.	infoevaris@gmail. com	Character should be visible in ascii form	Proper ascii character texts are appeared		Pass
1-2-E-1-2	2	Validate Test	1. Click on 'Save' button	infoevaris@gmail. com	Plugin should accept the input	Plugin accepted input successfully		Pass
1-2-E-1-3	3	Process on Input Test	1. Go to backend database 2. Select wp_mailster_subscribers table from list of tables	NA	Following entry should be found in table wp_mailster_subscribers infoevaris@gmail.com	Found related entry as below - infoevaris@gmail.com		Pass

1-2-E-1-4	4	Storage Test	1. Go to backend database 2. Select wp_mailster_subscribers table from list of tables	NA	Following entry should be found in table wp_mailster_subscribers infoevaris@gmail.com	Found related entry as below infoevaris@gmail.com	Respective entry found stored in database.	Pass
1-2-E-1-5	5	Process on Output Test	1. Go to subscriber's page 2. Look at recent record	NA	Following entry should be found in table infoevaris@gmail.com	Found related entry as below infoevaris@gmail.com		Pass
1-2-E-1-6	6	Display Test	1. Go to subscriber's page 2. Look at recent record	NA	Data should be displayed in ascii form	Data displayed in ascii form		Pass

Annexure – III

Summary Template

a) **Component:** WordPress

Functionality: Domain Names

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	UA Readiness level (A, B, C1, C2, C3, D)
ascii.ascii	https://www.icann.org/							
ascii.new	http://ua-test.link/							
ascii.long	http://ua-test.technology/							
idn.ascii	普遍接受-测试.top							
ascii.idn	ua-test.世界							
idn.idn	普遍接受-测试.世界							
idn-open dot-idn	普遍接受-测试。世界							
ascii.punycode	ua-test.xn--rhqv96g							
punycode.ascii	xn---f38am99bqvcd5liy1cxsg.top							
punycode.punycode	xn---f38am99bqvcd5liy1cxsg.xn--rhqv96g							
ascii.RTL								
RTL.ascii	اختبار-القبولالعالمي.top							
RTL.RTL	اختبار-القبولالعالمي.شبكة							

b) **Component:** WordPress

Functionality: Path Cases

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	Remarks
ascii.new/unicode	ua-test.link/我的页面							
ascii.long/unicode	ua-test.technology/我的页面							
idn.ascii/unicode	普遍接受-测试.top/我的页面							
ascii.idn/unicode	ua-test.世界/我的页面							
idn.idn/unicode	普遍接受-测试.世界/我的页面							
idn-open dot-idn/unicode	普遍接受-测试。世界/我的页面							
rtl.ascii/unicode	اختبار-القبولالعالمي.top/我的页面							
rtl.rtl/unicode	اختبار-القبولالعالمي.شبكة/我的页面							

c) **Component:** WordPress

Functionality: e-mail addresses

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	Remarks
ascii@ascii.new	Info1@ua-test.link							
ascii@ascii.long	info2@ua-test.technology							
ascii@idn.ascii	info3@普遍接受-测试.top							

ascii@ascii.idn	info4@ua-test.世界								
ascii@idn.idn	info5@普遍接受-测试.世界								
ascii@idn.idn	uasg.tech@डेटामेल.भारत								
ascii@idn-open dot-idn	info5@普遍接受-测试。世界								
ascii@ascii.punycode	Info4@ua-test.xn--rhqv96g; (duplicate of ua-test.世界)								
ascii@punycode.ascii	Info3@xn----f38am99bqvcd5liy1cxsg.top; (duplicate of 普遍接受-测试.top)								
ascii@punycode.punycode	Info5@xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g; (duplicate of 普遍接受-测试.世界)								
ascii@rtl.ascii	info6@القبولالعالمي-اختبار.top								
ascii@rtl.rtl	info7@القبولالعالمي-اختبار.شبكة								
ascii@rtl.rtl	user@رسيل.السعودية								
unicode@ascii.new	测试 1@ua-test.link								
unicode@ascii.long	;测试 2@ua-test.technology								
unicode@idn.ascii	测试 3@普遍接受-测试.top								
unicode@ascii.idn	测试 4@ua-test.世界								
unicode@idn.idn	测试 5@普遍接受-测试.世界								
unicode@idn.idn	with alias uasg@datamail.in;युएअसजी@डेटामेल.भारत								
unicode@idn-opendot-idn	测试 5@普遍接受-测试。世界								
unicode@ascii.punycode	测试 4@ua-test.xn--rhqv96g; (duplicate of ua-test.世界)								

unicode@punycode.ascii	测试 3@xn----f38am99bqvcd5liy1cxsg.top; (duplicate of 普遍接受-测试.top)							
unicode@punycode.punycode	测试 5@xn----f38am99bqvcd5liy1cxsg.xn-- rhqv96g; (duplicate of 普遍接受-测试.世界)							
unicode@rtl.ascii	测试 6@اختبار-العالمي-القبول.top							
unicode@rtl.rtl	دون@رسيل.السعودية							
unicode@rtl.rt	مستخدم@رسيل.السعودية							

a) **Component:** Plugin

Functionality: IDN

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	Remarks
ascii.ascii	https://www.icann.org/							
ascii.new	http://ua-test.link/							
ascii.long	http://ua-test.technology/							
idn.ascii	普遍接受-测试.top							
ascii.idn	ua-test.世界							
idn.idn	普遍接受-测试.世界							
idn-open dot-idn	普遍接受-测试。世界							
ascii.punycode	ua-test.xn--rhqv96g							
punycode.ascii	xn----f38am99bqvcd5liy1cxsg.top							
punycode.punycode	xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g							
ascii.RTL								
RTL.ascii	اختبار-العالمي-القبول.top							

RTL.RTL	اختبار-القبولالعالمي.شبكة							
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b) Component: Plugin

Functionality: PATH Cases

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	Remarks
ascii.new/unicode	ua-test.link/我的页面							
ascii.long/unicode	ua-test.technology/我的页面							
idn.ascii/unicode	普遍接受-测试.top/我的页面							
ascii.idn/unicode	ua-test.世界/我的页面							
idn.idn/unicode	普遍接受-测试.世界/我的页面							
idn-open dot-idn/unicode	普遍接受-测试。世界/我的页面							
rtl.ascii/unicode	اختبار-القبولالعالمي.top/我的页面							
rtl.rtl/unicode	اختبار-القبولالعالمي.شبكة/我的页面							

c) **Component:** Plugin

Functionality: e-mail addresses

Data category	Dataset	Accept Test (AT)	Validate Test (VT)	Process on Input (P1T)	Store Test (ST)	Process on Output (P2T)	Display Test (DT)	Remarks
ascii@ascii.new	Info1@ua-test.link							
ascii@ascii.long	info2@ua-test.technology							
ascii@idn.ascii	info3@普遍接受-测试.top							
ascii@ascii.idn	info4@ua-test.世界							
ascii@idn.idn	info5@普遍接受-测试.世界							
ascii@idn.idn	uasg.tech@डॉटमेल.भारत							
ascii@idn-open dot-idn	info5@普遍接受-测试。世界							
ascii@ascii.punycode	Info4@ua-test.xn--rhqv96g; (duplicate of ua-test.世界)							
ascii@punycode.ascii	Info3@xn----f38am99bqvcd5liy1cxsg.top; (duplicate of 普遍接受-测试.top)							
ascii@punycode.punycode	Info5@xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g; (duplicate of 普遍接受-测试.世界)							
ascii@rtl.ascii	info6@القبولالعالمي-اختبار.top							
ascii@rtl.rtl	info7@القبولالعالمي-اختبار.شبكة							
ascii@rtl.rtl	user@رسيل.السعودية							
unicode@ascii.new	测试 1@ua-test.link							
unicode@ascii.long	;测试 2@ua-test.technology							
unicode@idn.ascii	测试 3@普遍接受-测试.top							

unicode@ascii.idn	测试 4@ua-test.世界								
unicode@idn.idn	测试 5@普遍接受-测试.世界								
unicode@idn.idn	with alias uasg@datamail.in;युएअसजी@डेटामेल.भारत								
unicode@idn-opendot-idn	测试 5@普遍接受-测试。世界								
unicode@ascii.punycode	测试 4@ua-test.xn--rhqv96g; (duplicate of ua-test.世界)								
unicode@punycode.ascii	测试 3@xn----f38am99bqvcd5liy1cxsg.top; (duplicate of 普遍接受-测试.top)								
unicode@punycode.punycode	测试 5@xn----f38am99bqvcd5liy1cxsg.xn--rhqv96g; (duplicate of 普遍接受-测试.世界)								
unicode@rtl.ascii	测试 6@القبولالعالمي-اختبار.top								
unicode@rtl.rtl	دون@رسيل.السعودية								
unicode@rtl.rtl	مستخدم@رسيل.السعودية								

Annexure - IV

Benchmark:

	Accept	Validate	P1T	Store	P2T	Display	Remarks
IDN	<p>1. All forms possible: i.e. IDN – either U-Label or A-Label.</p>	<p>1. Normalize if non-ASCII (case folding, normalization)</p> <p>2. Optionally:</p> <ol style="list-style-type: none"> Verify if valid IDN Verify if label is too long (> 63 octets, A-label if IDN) <p>3. Maybe (has pros and cons):</p> <ol style="list-style-type: none"> Verify if TLD is active <p>Note: Since test dataset is provided as per UASG004 explicit testing for points 2 & 3 are not applicable</p>	<p>1. Does not truncate</p> <p>2. Does not inadvertently convert to ASCII. For example, converting ‘é’ to ‘e’.</p> <p>3. Conversion, if any, from Unicode to Punycode vice versa</p>	<p>1. Either U-Label or A-Label</p> <p>2. Long/new TLD: as is; no truncation</p> <p>3. If validation fails, should not store data</p>	<p>1. Given a good value in the database, verify that the value going to be displayed by the UI is correct: IDN is in U-Label format, long string TLD is not truncated, new TLD string is processed.</p> <p>2. Conversion, if any, from Punycode to Unicode</p>	<p>1. Should display in UTF8</p> <p>2. May also display IDN as A-label</p> <p>3. long string TLD is not truncated,</p> <p>4. New TLD (from the root) is shown,</p> <p>5. Removed TLD (from the root) is not shown.</p> <p>Note: Since test dataset is provided as per UASG004 explicit testing for point 5 is not applicable</p>	<p>It is possible that the software may not provide any message if validation fails. In such case, check whether the data is stored.</p>
PATH IRIS	<p>Verify if it accepts any UTF8</p>	<p>1. Normalize if non-ASCII (case folding, normalization)</p> <p>2. Optionally:</p> <ol style="list-style-type: none"> Verify if valid IDN Verify if label is too long (> 63 	<p>1. Does not truncate</p> <p>2. Does not inadvertently convert to ASCII. For example, converting ‘é’ to ‘e’.</p>	<p>1. Given good PATH IRI input verify that the database content for that input is correct: i.e.</p>	<p>1. Given a good value in the database, verify that the value going to be displayed by the UI is correct: IDN is in U-Label format, long string TLD is</p>	<p>1. Should display in UTF8</p> <p>2. May also display IDN as A-label</p> <p>3. long string TLD is not truncated,</p>	<ul style="list-style-type: none"> • IDN rules applied for domain part. • For Unicode resource names, UTF8 percentage encoding is applicable

		<p>octets, A-label if IDN)</p> <p>3. Maybe (has pros and cons):</p> <p>a. Verify if TLD is active</p> <p>Note: <i>Since test data is provided as per UASG004, check points 2 & 3 are not applicable</i></p>	<p>3. Conversion, if any, from Unicode to Punycode vice versa</p>	<p>either identical or normalized version of the path part</p> <p>2. The domain part, if IDN, could be either A-Label or U-Label form.</p> <p>Given bad PATH IRI input, verify that the database content for that input is not saved.</p>	<p>not truncated, new TLD string is processed.</p> <p>2. Conversion, if any, from Punycode to Unicode</p> <p>3. Resource names to be in UTF8</p>	<p>4. New TLD (from the root) is shown,</p> <p>5. Removed TLD (from the root) is not shown.</p> <p>6. Resource name should display as per the input</p> <p>Note: <i>Since test dataset is provided as per UASG004 explicit testing for point 5 is not applicable</i></p>	
E-mail Addresses	Verify if it accepts any UTF8	<p>4. Normalize if non-ASCII (case folding, normalization)</p> <p>5. Optionally:</p> <p>a. Verify if valid IDN</p> <p>b. Verify if label is too long (> 63 octets, A-label if IDN)</p> <p>6. Maybe (has pros and cons):</p>	<p>4. Does not truncate</p> <p>5. Does not inadvertently convert to ASCII. For example, converting 'é' to 'e'.</p> <p>6. Conversion, if any, from Unicode to</p>	<p>3. Given good EAI input verify that the database content for that input is correct: i.e. either identical or normalized version of</p>	<p>7. Given a good value in the database, verify that the value going to be displayed by the UI is correct: IDN is in U-Label format, long string TLD is not truncated, new TLD string is processed.</p>	<p>1. Given a good value in the database, verify that the displayed value by the UI is correct: local part is UTF8</p> <p>2. IDN is in U-Label format</p> <p>3. long string TLD is not truncated</p>	Local part ascii or utf8, while for domain part (domain rules applies)

		<p>a. Verify if TLD is active</p> <p>Note: <i>Since test data is provided as per UASG004, check points 2 & 3 are not applicable</i></p>	<p>Punycode vice versa</p>	<p>the local part.</p> <p>4. The domain part, if IDN, could be either A-Label or U-Label form.</p> <p>5. Given bad EAI input, verify that the database content for that input is not saved.</p>	<p>8. Conversion, if any, from Punycode to Unicode</p>	<p>4. New TLD (from the root) is shown</p> <p>5. Removed TLD (from the root) is not shown.</p> <p>Note: <i>Since test dataset is provided as per UASG004 explicit testing for point 5 is not applicable</i></p>	
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