PIC-NG - User Acceptance Test Plan



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U.S. Department of Housing and Urban Development

Document Number: N/A Contract Number: N/A

Objectives

Purpose

User Acceptance Testing (UAT), also known as beta or end-user testing, is defined as testing the software by the user or client to determine whether it can be accepted or not. This is the final testing performed once the functional, system and regression testing are completed.

The main purpose of this testing is to validate the software against the business requirements or scenarios. This validation is carried out by the end-users who are familiar with the business requirements or scenarios.

As the user acceptance test is the last testing that is carried out before the software goes live, obviously this is the last chance for the customer to test the software and measure if it is fit for the purpose.

Scope

User Acceptance Testing will cover business requirements and scenarios defined as in scope.

In Scope

Functionality of the PIC-NG application to support the Moving to Work (MTW) Expansion Program and the PIC-NG Inventory Management, more specifically building and units information that public housing authorities are required to submit to the PIC-NG system.

Points of Contact

The primary point of contact for information and troubleshooting purposes is Wendalyn Hovendick, HUD.

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References

Applicable references are:

- IMS/PIC Modernization Architecture and System Design Document
- IMS/PIC Modernization Operations and Maintenance Manual

Assumptions and Constraints

To be determined.

Entry Criteria

Vendor Access to Demo Environment

If you work for a vendor and you don't have an account with Secure Systems, then you can register for an ID using this link: Secure Systems Registration - Independent User Registration. After the registration process, you will have an ID that is six characters and starts with the letter I. Send an email to PICNG_REAC@hud.gov with that ID and the PHA you are working with and we'll finish your registration by assigning roles to your user account.

If you work for a PHA directly, your registration page is here instead: Secure Systems Registration - PHA Coordinator and User Registration.

UAT Environment

The testing will be conducted in the DEMO environment. This provides a controlled environment in which tests can be repeated if necessary. Proper user roles and actions will be granted to the User IDs in the DEMO environment. Passwords will be provided for all the User IDs. The SWAT IT team will provide the test procedures; however, actual users will perform all of the testing.

UAT Test Plan
Using the PIC-NG Portal:
https://hudapps.hud.gov/picngdemo/web/home for HIDs.
MIDs & IIDs will need to access this URL first https://hudapps.hud.gov/HUD_Systems.
Note: Detailed Test Plan Steps available here : User Acceptance Test Plan Options & Additional Information for Vendors/PHAs

User Acceptance Test steps for Vendor MTW JSON Submissions

The following are the steps to submit a MTW JSON submission:

1. Login to the PIC-NG portal (https://hudapps.hud.gov/picngdemo/web/home) after gaining Vendors Access. ookup.

2.	Navigate to	Building and	Units then selecting	g Real Estate ID L	.0

📽 H50300 🗢 Admin 🥜 Triba	I HUD-VASH 👻 🖽 50058 💌	🖽 Building and Units 👻	Reports 🔻	🕩 Logout
		Address Validation Inventory		
		PHA User Inventory Removal Creation	Grants	
	G	Real Estate ID Lookup	h Gra	nt Number 🔶
	Warm Springs	HUD Change Requests	15HV411424	0
	Yakama Nation	PHA Workflows	15HV531832	<u>0</u>
	Warm Springs	Invalid Addresses	UNKNOWN	
	Yakama Nation	Flagged Data	UNKNOWN	
		HUD PHA Association		
		En	rors	
	Submission ID	🗢 Last Name 🗢	SSN \$	Errors 🗢
	There are no e	errors.		

Obtain the Real Estate ID by entering the Development Number, Building Number, Building Number Entrance, and Unit Number using the Building & Unit Lookup Feature. You can find the test data in the UAT test plan.xlsx excel spreadsheet under Tabs Development Attributes, Building Attributes, and Unit Attributes.

	Real Estate ID Lookup					
Please select one:	Please select one:					
Unit O Building O D	evelopment					
Development Number	CA001000010					
Building Number	B010					
Building Entrance Number	01					
Unit Number	U01					
Lookup						
Real Estate Id: 15639632436935244298						

4. Navigate to 50058 and select Submit JSON.

📽 H50300 🌣 Admin 🖌 Tribal HUD-VASH 🔻	▼ 🖼 50058 ▼ 🖾 Building and Units ▼ 🔹 Reports ▼ 🔅 Logout
	Upload File
	Submit JSON
	Submission Status Ceal Estate ID Lookup
Please select one: • Unit O Building O Development	
Development Number	
Building Number	
Building Entrance Number	
Unit Number	
Lookup	

 For this submission use the "AT1-New Admission.txt" JSON file included with this test package. Update the JSON to use the Real Estate ID from Step 2 and validate/submit the JSON file.
 50058 JSON Submission Demo

50058 JSON Submission Demo						
Submission ID is 1000186.						
Please paste the JSO	N below:					
<pre>{ "header": { "formVersionDate": "", "submissionType": "50058", "vendorDefinedData": "", "</pre>						
Validate	Submit					
File Submission Stat	us: JSON Submissio	on Store Data - Completed	I			
		File Validation Erro	rs			
Error Code	Туре	Error Message	Line Number	Submitted Information		
4047	WARNING	The composite key is null or invalid and the composite key is not required		realEstateId=15967		

6. To see the results of the submission status navigate to 50058 and select Submission Status.

🏶 H50300 🌣 Admin 🎤 Tribal HUD-VASH 🔻	🗏 50058 👻 🗏 Building and Units 👻 🖹 Reports 👻 🕒 Logout
	Upload File
	Submit JSON
Submission Results Demo	Submission Status
Please enter a submission ID:	
Submit	
	ವು Terms of Service

7. Enter the submission ID obtained in Step 3 on the submission status screen and select the folder icon in the lower right portion of the screen under the Submission Status column to see the submission results.

Submission	Results De	emo						
Please enter a sub	mission ID:							
1000186								
Submit	Submit							
Submission Statu	s: JSON Submiss	ion Store Subm	Data - Cor	mpleted	Errors			
Error Code	Туре		Error M	lessage	Lin	e Number		Submitted Information
4047	WARNING	The composite key is null or invalid and the composite key is not required when a valid RID is provided.				rea 15	alEstateId = 96791864250786	
Submission Status								
Submission ID	Last Name	First	t Name	Action ⁻	Туре	Submissior Status	ו	
1000186	doe	john		1		JSON Submission Store Data - Completed		6

8. The 50058 result page will display which the results of the data in the 50058 submission.

A H50300 O Adr	nin 🖋 Tribal HUD-VASH 👻	B 50058 • B Building and Units • Keports • I Cogout	
		50058	
		00000	
Section 1: Agency			
Agency Name	Housing Author	ority of the City of SF	
PHA Code	CA001		
Program	VO		
Section 2: Action			
Type of action		1	
Effective Date (m	m/dd/yyyy) of action:	2017-01-01	
Correction?:		Ν	
Correction Beas			
Date (mm/dd/yyy	admission to program:	2017-01-01	
Projected effection	e date (mm/dd/yyyy) of next	reexamination: 2018-01-01	
FSS participation	now or in the last year?:		
Special Program	(Vouchers only):		
Other Special Pro	igram 1:		
Other Special Pr	igram 2:		
Section 3: Househol	1		
Member Numbe	Last Name & Sr., Jr., etc.	First Name	
Member	Jeter	Derek	
#1: Head of	Date of birth Se 1980-01-01 M	ex Citizenship EC	
Household	Disability Status Re	elation Race	
	N H	Black/African American	
	Ethnicity So 2 55	sclal Security Number 55222316	
Member Number	Last Name & Sr., Jr., etc.	First Name	
Member	Rodriguez	Alex	
#2	2005-01-01 M	EC EC	
	Disability Status Rel	Nation Race	
	Ethnicity Soc 2 555	cial Security Number 5222314	
Total number in h	ousehold:	2	
Family subsidy s	atus under Noncitizens Rule:	κ	
Eligibility effectiv	e date (mm/dd/yyyy) if qualifi	ied for continuation of full assistance (3u=C):	
If New head of ho	usehold, former head of hous	sehold's SSN:	
Section 4: Backgrou	1d at Admission		
Date (mm/dd/yyy	y) entered waiting list:	2016-01-01	
ZIP code before admission: 20024			
Homeless at adm	ission?	Ν	
Does family qual	fy for admission over the ver	ry low-income limit? (Vouchers only) (Y or N): Y	
Continuously as	isted under the 1937 Housing	g Act? (Y or N): Y	
is there a HUD ap	proved income targeting disr	regard? (Y or N):	
Section 5: Unit to be	Occupied on Effective Date of Actio	lon	
Section 5: Unit to be Unit Address	Occupied on Effective Date of Actio	an	

10. Check the Unit Tenant status by navigating to Building and Units then selecting Inventory.

🏶 HPICOO ष Admin 🖌 Tribal HUD-VASH 👻 🖽 50058 👻	▼ 🖪 Building and Units 🔸 🖄 Reports 👻 🕩 Logout
	Inventory
	Inventory Removal 🔸
	Address Validation
PHA	Real Estate ID Lookup
	HUD Change Requests
	PHA Workflows
	Invalid Addresses
	Flagged Data
	HUD PHA Association

11. Select your PHA from the dropdown on the Inventory page and expand the Development Number, then expand the Building number then select the Details button for the Unit.

Inventory							
PHA	PHA CA001-CHEROKEE NATION OF OKLAHOMA						
Number	Name	Туре	Action				
			History				
			Details				
~ CA001000001	Dev1	Development	Edit				
			Add Building				
			Change Request For All Units				
			History				
			Details				
✓ D1B1	South1	Building	Edit				
			Add Unit				
			Change Request For All Units				
			History				
Unit1		Unit	Details				
			Edit				

12.	This	will	display	the	Unit	Tenant	Status.

	50058	î				
Section 1: Agency						
Agency Name	Carbon County Housing Authority					
PHA Code	PA067					
Program	2					
Section 2: Action						
Type of action	1					
Effective Date (mm/dd/yyyy) of a	ction: 2019-02-05					
Correction?: N						
Correction Reason:						
Accessible Designation:	Standard					
Unit Status Type:	Initial Approval Completed					
Street:	550 12th street SW					
City:	Washington					
State:	DC					
Zip Code:	20024					
Zip Code +4:	6121	H				
Unit Designation:	General Occupancy					
Unit Tenant Status:	Occupied					
Unit Tenant Status Subcategory:	Assisted tenant					

13. Use the "AT6-New Admission.txt" JSON file with Action Type "6" which changes the Unit Tenant Status to "Vacant" and submit the JSON submission using Step 5.

14. Verify that the Unit Tenant Status on the Inventory page on the Unit Details page is now "Vacant".

Accessible Designation:	Standard	
Unit Status Type:	Initial Approval Completed	ļ
Street:	550 12th street SW	
City:	Washington	
State:	DC	
Zip Code:	20024	
Zip Code +4:	6121	
Unit Designation:	General Occupancy	
Unit Tenant Status:	Vacant]
Unit Tenant Status Subcategory:	Vacant]
ACC Indicator:	Y]
Operating Fund Indicator:	Y	
Capital Fund Indicator:	Y	ļ

User Acceptance Test Cases and Scenarios

The following are test scenarios for user acceptance testing of an Minimum Viable Product (MVP) 1 for the 50058 Module. The scenarios can be found in the "UAT test plan.xlsx" excel file.

The User Acceptance Test scenarios have been broken into sections based on the program type of the submission on the HUD-50058-MTW form.

Test Scenario	Excel Tab	Testing Traceability
Public Housing 50058	Prog P	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules

Tenant-Based Assistance 50058	Prog T	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules
Project-Based Assistance 50058	Prog PR	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules
Homeownership 50058	Prog H	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules

Local, Non-Traditional Property-Based Vouchers 50058	Prog LP	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules
Local, Non-Traditional Tenant-Based 50058	Prog LN	PIC-7399 - Authorization / Identify PHAs
		PIC-7415 - Flexibility Tracking
		PIC-7425 - Front-End User Interface (Limited)
		PIC-9732 - Other 50058
		PIC-4761 - Epic story to link all the 50058 business related questions
		PIC-208 - receive form
		PIC-9732 - Other 50058
		PIC-7975 - 50058 Section 1 - Does the unit exist?
		PIC-7420 - Add edit checks that apply to HCV and PH per MTW business rules
		PIC-7413 - Associate Public Housing tenants and units
		PIC-7411 - Add PH edit checks per MTW business rules
Family Self-Sufficiency (FSS)/MTW Self- Sufficiency Addendum	FSS_MTW SS	PIC-7410 - Add HCV edit checks per MTW business rules

TEST VERIFICATION

The Table below provides the verification process of the submissions in current DEMO environment

Verification steps after the scenarios are executed

- Once user acceptance testing has been completed, the test user will provide the test PHA code/s used in the test scenarios to the SWAT IT team by sending them to PICNG_REAC@hud.gov.
 The SWAT Team will run the tenant report for each PHA code and provide the tenant reports for tenants in the test user.
- 3. If any issues or bugs are identified during testing, please see section Test Termination/Results for instructions.

Sample Tenant Reports

Household Report

	Α	В	С	D	Е	F	G	н
1	PHA_CD	HSHLD_ID	MINIMUMRENT	ENHANCEDVOUCHERMINIMUMRENT	ттр	MOSTRECENTTTP	ISHARDSHIPEXEMPTION	UNITFLATR
2	AL165	10000070	50	0	75	0	N	
3	AL165	10000169	50	0	351	0	N	
4	AL165	10000289	50	0	618	0	N	

Member Report

	Α	В	С	D	E	F	G	Н	I. I.	J
1	PHA_CD	HSHLD_ID	PRSN_ID	SSN	FIRSTNAME	LASTNAME	ISDISABLED	COMMUNITYCODE	ALIENNUMBER	YEARSOFSCH
2	AL165	10000070	10000141	HN775QGJMXVGSDAC	MROPMZIH	zrviL	N	4		
3	AL165	10000169	10000240	YY4QWQFS6W	OOVDLX	vrmzskvgU	N	4		
4	AL165	10000169	10000268	E3IWVWG48	HMVPGZQ	zbmsrC	N	4		

TEST EXECUTION

Test Schedule

All the tests must be completed, and results reported back to HUD, no later than November 02, 2020. Daily conference calls will be held at 3:00 p.m. Eastern time (call-in numbers will be provided via e-mail).

Task	Planned Target Start Date	Planned Target End Date	Group Responsible
UAT Test Plan	09/29/2020	10/21/2020	SWAT IT
UAT Test Plan Submit to HUD	10/21/2020	10/23/2020	SWAT IT
UAT Environmental setup	10/21/2020	10/23/2020	SWAT IT
UAT Testing Round 1	10/26/2020	11/06/2020	HUD

Test Progression

The individual tests can be run in any order, but unless there is some reason for not doing so, it is recommended that they be performed in the order they are listed in this document to ensure orderly test progression and to ensure no tests are missed. After completion of the listed test scenarios, free-form user testing is encouraged.

Test Criteria

Tests will be considered successful if expected results of the scenarios are met. If any test scenario fails, we like testers to determine whether the overall capability has a significant flaw, the capability is adequately functional, or there is a satisfactory workaround for the failure.

Based on the overall findings of your testing, indicate whether you feel the PIC-NG is ready for release to production. Provide comments and feedback on the User Comment Form Attached.

Test Control

Users are responsible for performing all data entry for validating the results of each test scenarios. The system will be tested by using manual input of data, site navigation, and examination of content and messaging.

Test Termination/Results

Upon completion of the testing, all output generated as a result of the testing, the annotated test procedures used by the users conducting the tests, and the user test comment forms will be collected and returned to PIH for analysis. Send e-mails to: PICNG_REAC@hud.gov

Please provide your testing results to HUD by sending them to PICNG_REAC@hud.gov or (Few business member and few IT member emails)

When a bug or issue is identified, please provide the following information:

- Scenario ID(s)
- Description of the bug or issue encounter
- Steps to recreate the problem (if needed)
- Provide the JSON file(s) used (if applicable)

Business user will add the suggested change or bug to the JIRA Board to be prioritize based on their need. Bug or story identified as show stopper will be be suggested to work on as the logged in JIRA. All other bug and suggestion will be placed on backlog for future MVP.

Exploratory Testing Results Instructions

We are flexible on the format of the exploratory testing results. Please provide your testing results to HUD by sending them to PICNG_REAC@hu d.gov.

High Level Testing Approach

Any issues that are reported during UAT will be handled using the Test Progress Process documented in the PIC-NG Test Plan.

Available Building and Unit Data

Building and Unit data has been populated in the demo environment for each PHA. Each development number start with the 5 digit PHA Code.

In the example the PHA Code is EX999.

3008	3000
Org Code	Development Number
EX999	EX999000004
EX999	EX999000102
EX999	EX999000103

To look up the real estate ID for a unit, you need to exercise the appropriate Building and Unit Web Service.

The combination of the Development Number, Building Number, Unit Number OR the Unit's Real Estate ID must provided in the 50058 submission for public housing.

The example test data can be found on the UAT Test Plan excel spreadsheet on tabs Development Attributes, Development Attributes, and Unit Attributes.

REFERENCE INFORMATION

Submission Screens

Vendors can access the PIC-NG Portal to do the following:

50058 JSON Submission

You can use the 50058 JSON Submission page to validate or submit your JSON.

	PIC-NG Portal
A HPIC00 & Admir	n 🗲 Tribal HUD-VASH 🔻 🗐 50058 👻 🗐 Building and Units 💌 🖄 Reports 👻 🕪 Logout
50058 JSON SI	ubmission Demo
Please paste the JSON	below:
Tun, proratedattern {"reportCategory":n ":null,"isHealthBenef nce":null,"isFoodStat te":null,"isFoodStat te":null,"isFoodStat te":null,"icontractEnd seApprovalDate":nul {"need":null,"needM {"needM {"needM {"needM} {"nee	anteen: :nun, additionalsupportrovrammy :nun, ownerincendve :nun, iss : ull, "isParticipant":null, "sEffectiveDate":null, "administeringPha":null, "employmentStatus":null, "employmentBeginDa ft":null, "isRetirementBenefit":null, "isCherBenefit":null, "yearsOfSchool":null, "isTanfAssistance":null, "isGeneralAssist mps":null, "isMedicaid":null, "isEarnedIncomeTaxCredit":null, "childrenReceivingChildcareServices":null, "contractStarti Date":null, "contractExtensionDate":null, "membersWithIndividualPlan":null, "isSelectionPreference":null, "currentAccountBalance":null, "accountAmountDisbursed":null, "isContractParticipationComplete":null, "cequestForLe II, "currentAccountBalance":null, "accountAmountDisbursed":null, "isContractParticipationComplete":null, "cequestForLe II, "serviceProvider":null, "lighSchob"]: "(meed":null, "needMet":null, "serviceProvider":null, "gostSecondary": let":null, "serviceProvider":null, "jobTraining": {"need":null, "needMet":null, "serviceProvider":null, "jobSearch": let":null, "serviceProvider":null, "jobRetention": {"need":null, "needMet":null, "serviceProvider":null, "transportation": Submit
Validate	

50058 File Upload

You can use the 50058 File Upload page to validate or submit your JSON.

			PIC-NG Portal		
A HPIC00) 🌣 Admin ۶ Tribal HUD-VASH	▼ 🖻 50058 ▼	🖲 Building and Units 🔻	🕅 Reports 🔻 🛛	Logout
50058 Fi	ile Upload Demo				
Upload or val	alidate a 50058 ascii file:				
● Validate ◯	O Upload				
Choose File	CE_AT1_valid.asc				
	13		Differms of Service		

Submission Status Page

You can look up a submission by entered the submission on the Submission Status.

		PIC-NG Portal	
Admin 🖌 Tribal HUD-VA	ASH ▼ 🗐 50058 ▼	🖲 Building and Units 👻	🖹 Reports 👻 🕩 Logout
Submission Results Demo Please enter a submission ID: Submit	R		
		④ Terms of Service	

Cron Job Schedule

<u>Auto EOP Cron Job</u> - this job looks to see if there is any overlapping for a tenant and ends the overlapping with a End of Participation (EOP) (action type 6).

This job is scheduled to runs everyone morning at 6:00 am Eastern.

Port Out Cron Job - this job looks to see if there is any overlapping for a tenant and ends the overlapping with a auto port out (action type 5).

This job is scheduled to run everyone morning at 6:30 am Eastern.

User Acceptance Testing Risks

• PII information should not be submitted to this environment.

Supplemental Files

Name	Description
UAT test plan.xlsx	This excel file contains all test scenarios separated by tab and a copy of the test data provided in the demo environment for reference.
AT1-New Admission.txt	This is the test submission JSON file for a new submission.
AT6-EOP.txt	This is the test submission JSON file for a End Of Participation submission.

The following files will be included with this document that will support the User Acceptance Testing.