Documentation to use the Integrated Credit Bureau (Web-App Version):

- 1. Adding the Configurations.
- 2. Using the Credit Bureau which is mapped to Loan Product.
- 3. Using the Credit Bureau directly. (not-mapped with Loan Product).
- 4. Uploading the CreditReport to ThitsaWorks.
 - 1. Adding the Configuration:

Configuration are the Credentials and URL's which are required to store before fetching or uploading the Credit Reports.

Go to Admin > System > External Service > Credit Bureau Integration.



Click on Credit Bureau Configuration (as seen on upper Right side.)

CreditBureau Home / System / External Services / CreditBureau CreditBureau Configuratio Add credit Burea	CreditBureau Home / System / External Services / CreditBureau CreditBureau Configuration Add credit Bureau CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action Man credit Bureau to Lean Product	Lill Reports	🜓 Admin 🛛 名	Self Service				
CreditBureau Configuratio	CreditBureau Configuration Add credit Bureau CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action	CreditBurea	U Home / Syste	m / External Servic	es / CreditBureau			
Add credit Burea	Add credit Bureau CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action Man credit Bureau to Loan Product							CreditBureau Configuration
CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action	Man credit Bureau to Lean Product	CB-ID	Alias	CB-Name	CB-PRODUCT	COUNTRY	Status	Add credit Bureau

Select which Credit Bureau's Configuration to be added:

	III Reports	🚺 Admin	A Self Service
Сг	editBureau	List Home	/ System / External Services / CreditBureau / CreditBureauList
	Credit Bureau	:	
	Credit Bureau * THITSAWORKS		
			Submit

Add all the configuration, one by one :

ing	네 Reports 🜒 Admin	Self Service
	1 Home / System / Ext	ternal Services / CreditBureau / 1
	Credit Bureau:	
	Password	^
	SubscriptionId	
	SubscriptionKey	
	Username	
	tokenurl	
	searchurl	~

locounting	🔟 Reports 🜓 Admin 😤 Self Service
	1 Home / System / External Services / CreditBureau / 1
	Credit Bureau:
	Credit Bureau Configuration * Password
	Value * password
	Description Credential to fetch/upload CreditReport
	Cancel Submit

Add all the configuration including the URL's.

- Tokenurl : will be used to create the tokens.
- Searchurl: will be used to get the Unique Id from the NRC
- creditReporturl : will be used to fetch the CreditReport from the Unique Id.
- o addcreditReporturl : will be used to Upload CreditReports to thitsaworks.

Note: while adding the configurations, Do **NOT** the white-space at the end of the value.

2. Using the Credit Bureau which is mapped to Loan Product:

- Description :
- Create the Alias of the Credit Bureau.
- Map it with the Loan Product.
- When the Client will apply for the loan with the Loan Product which is mapped to the Credit Bureau (and status: Enabled) then "Credit Report" Button will be seen on the Loan Application of the Client.
- Since the Credit Bureau is already mapped with that loan product. (So, the system knows to which Credit Bureau page the user should be re-directed to) This will make it easier for the User, to fetch the credit Report without Selecting the Credit Bureau.

Step 1:

Map the Credit Bureau with the Loan Product : Go to > Admin > System > External Services > Credit Bureau Integration.

Lul Reports	🕈 Adm	in 📇 :	Self Service					
CreditBurea	au Home	e / System	/ External	Services / CreditBureau				
							CreditBu	reau Configuration
								Add credit Bureau
CB-ID		Alias	CB-Name	CB-PRODUCT	COUNTRY	Status	Action	
						M	lap credit Burea	u to Loan Product
				leanDreductName isOreditCheek&tendaten	ckipCrodiChockIpEpiluro	stalePori	ad Statue	Action

Click on: Add Credit Bureau Button > Give the Integrated Credit Bureau an Alias Name.

unting	Lill Reports 🜒 Admin 🔹 Self Service
	CreditBureauAlias Home / System / External Services / CreditBureau / CreditBureauAlias
	Credit Bureau Alias:
	Alias * Thitsaworks Alias
	Credit Bureau : * 1 - THITSAWORKS - Myanmar
	Cancel Submit

List of Alias of the Integrated Credit Bureau will be shown:

CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action 1 Thitsaworks Alias THITSAWORKS 1 Myanmar • • • • • • • • • • • • • • • • • • •	Add orodit Dur
CB-ID Alias CB-Name CB-PRODUCT COUNTRY Status Action 1 Thitsaworks Alias THITSAWORKS 1 Myanmar Penable Penable Penable Penable Penable Penable Penable Penable Penable <	Add Cledit Bu
1 Thitsaworks Alias THITSAWORKS 1 Myanmar PEnable	
Map credit Bu	reau to Loan Proc

Now, Map it with the Loan Product :

Click on "Map Credit Bureau to Loan Product" Button > Select the Loan Product and Credit Bureau and Add the details as shown below :

Mapping Credit B	ureau with L	oan Product:				
.oan Product *						
oanProduct Myanm.	ar					
redit Bureau Alias						
hitsaworks Alias				 		
Credit-Check Mandat	tory 🔽					
	_					
Skip Credit-Check]					
talo t						
r r						

											Credit	Bureau Configura
												Add credit Bu
CB-ID	Alias		CB-Name		CB-PR0	DUCT	COUN	ITRY	Status	Action		
1	Thitsaworks	Alias	THITSAWO	ORKS	1		Myar	nmar	•	a	Disable	
										Мар	credit Bu	reau to Loan Pro
CB_LP-ID	Alias	creditbureauSummary		IoanProductName		isCreditCheckMandator	y ↑	skipCrediCheckInf	ailure	stalePeriod	Status	Action
10	Thitsaworks Alias	1 - THITSAWORKS -	Myanmar	LoanProduct My	anmar	true		false		7	•	Sec. Enable

List of Mappings of Credit Bureau with the Loan Product:

Now Created the Client for the Loan with the Loan Product (Loan Product Myanmar) which was mapped to the Credit Bureau.

Since it was not enabled after Mapping, the Credit Report Button is still not visible.

ounting Lui Reports	🜓 Admin	Lef Service						۹
General Ho	me / Clients /	1 / Loans / 1 / General						
	Loan Product: Lo lient Name: client	anProduct Myanmar(#000000 one	0001)					
Losra Acopart				+ Add Loan Charge	✓ Approve	Modify Application	x Reject Mor	e
General	Account Details	Repayment Schedule	Loan Docume	nts Notes	Standin	ng Instruction		
Loan Details								
Key				Value				
Disbursement Dat	e			Not Ava	ailable			
Currency				US Doll	ar			
Loan Officer				Unassig	gned			

Enabling the Mapping(and status: green):

							CreditB	ureau Configuration
								Add credit Bureau
CB-ID	Alias	CB-Name	CB-PRODUCT	COUNTRY	Status	Action		
1	Thitsaworks Alias	THITSAWORKS	1	Myanmar	٠	A	Disable	
						Мар о	credit Bur	eau to Loan Product
	Aliae credithureauS	ummary IoanProductN	lame isCreditCheckM	landatory skipCrediChe	eckinFailure	stalePeriod	Status	Action

Now, Credit Report Button is enabled, Click on Credit Report Button:

ounting Lul Reports	🜓 Admin 🛛 😤	Self Service							٩
General Ho	me / Clients / 1 /	Loans / 1 / General							
	Loan Product: LoanPr lient Name: client one	oduct Myanmar(#00000	00001)						
		÷	Add Loan Charge	✓ Approve	Modify Application	× Reject	📼 Credit Report	More	
General	Account Details	Repayment Schedule	Loan Document	is Not	es Standing I	nstruction			
Loan Details									
Key				Va	lue				
Disbursement Dat	e			No	t Available				
Currency				US	Dollar				
Loan Officer				Un	assigned				

Re-direct to specific Credit Bureau's Page which is mapped to LoanProduct:

Enter the NRC Number to fetch the Credit Report:

To fetch the Reports, Enter the **Exact NRC** and Submit. for example: **12/KaMaRa(N)253426**

edit Report: ThitsaWorks	
(aMaRa(N)253426	
	Submit
Borrower Information.	Values
MainIdentifier	8113399260
Name	Aye Aye
NRC	12/KaMaRa(N)253426
Gender	Female
DOB	1991-05-22 1990-05-22
FatherName	U Aye Myint Maung
Address	
LastUpdatedDtm	Jul 8 2020 9:27AM
Sredit Score	Values
Score	
Class	
Note	
	Export TO CSV Click
Dpen Accounts	Export TO CSV Click
Open Accounts ReportingDate : 2020-03-01	Export TO CSV Click
Open Accounts ReportingDate : 2020-03-01 .oanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98	Export TO CSV Click
Open Accounts ReportingDate : 2020-03-01 .coanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 nstitution : Demo 1	Export TO CSV Clici
Open Accounts ReportingDate : 2020-03-01 .oanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 nstitution : Demo 1 Division : YANGON	Export TO CSV Click
Open Accounts ReportingDate : 2020-03-01 .oanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 nstitution : Demo 1 Division : YANGON Fownship : THONGWA	Export TO CSV Click
Open Accounts ReportingDate : 2020-03-01 LoanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 Institution : Demo 1 Division : YANGON Fownship : THONGWA PrincipalOutstandingAmount : 300000	Export TO CSV Clici
Open Accounts ReportingDate : 2020-03-01 .oanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 nstitution : Demo 1 Division : YANGON Fownship : THONGWA PrincipalOutstandingAmount : 300000 FotalOutstandingAmount : xxxx	Export TO CSV Clici
Dpen Accounts ReportingDate : 2020-03-01 CoanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 nstitution : Demo 1 Division : YANGON Township : THONGWA PrincipalOutstandingAmount : 300000 TotalOutstandingAmount : xxxx PrincipalOverdueAmount : 50000	Clici
Open Accounts ReportingDate : 2020-03-01 LoanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 Institution : Demo 1 Division : YANGON Township : THONGWA PrincipalOutstandingAmount : 300000 TotalOutstandingAmount : 50000 TotalOverdueAmount : 50000	Export TO CSV Clici
Open Accounts ReportingDate : 2020-03-01 LoanGUID : 219FDCB9-9653-4D2F-A3D7-8401DDEFAB98 Institution : Demo 1 Division : YANGON Township : THONGWA PrincipalOutstandingAmount : 300000 TotalOutstandingAmount : xxxx PrincipalOverdueAmount : 50000 TotalOverdueAmount : DaysInDelay : 5	Circi

Closed Accounts	
ReportingDate : 2020-03-01	
Name : aye	
FatherName : U Aye Myint Maung	
Division : YANGON	
Township : YANKIN	
WardVillage :	
DisbursedDate : 2019-01-01	
DisbursedAmount : 300000	
WriteOffDate : 2020-01-01	
PrincipalWriteOffAmount : 150000	
Note : Run Away.	
UpdatedDtm : Apr 24 2020 10:26AM	
Status : Y	
Institution : Demo 3	

It also has the feature to export the OpenAccounts and ClosedAccounts in csv file. Click on "Export To CSV" button (twice).

	Opening 12_KaMaRa(N)253426_OpenAccounts.csv X	
Credit Score	You have chosen to open:	
Score	12_KaMaRa(N)253426_OpenAccounts.csv	
Class	which is: Microsoft Excel Comma Separated Values File (498 bytes) from: blob:	
Note	What should Firefox do with this file?	
	Open with Excel (default)	
	Save File	Export TO CSV Click tv
Open Accounts	Do this <u>a</u> utomatically for files like this from now on.	
ReportingDate : 2020-03-01	OK Cancel	
LoanGUID : 219FDCB9-9653-4D2F-/		

3. Using the Credit Bureau directly. (not-mapped with Loan Product).

Go to Clients >Select any Client > Select Credit Report Tab > Select the Credit Bureau Name >

± 0 ±	Client Name : client on Client #:00000001 Externa Activation Date : Jan 19, 202 Member Of :	e I Id: Staff:Unassigned 1						
View Signature	Family Members	Idantitias	Documento	C Edit	Applications	Actions	🛔 Assign Staff	Mor
General	Family Members	Identities	Documents	Notes	Credit Report			
Credit Bure	works		•					

Clicking on Fetch Credit Report Button, which will redirect it to the Credit Report Page.

4. Uploading the CreditReport to ThitsaWorks.

Go to Clients > Select any Client > Select Credit Report Tab > Select the Credit Bureau Name > Click on "Upload CreditReport" Button > Re-direct to Upload Credit-Report Page

	Client Name : client on Client #:000000001 Externa Activation Date : Jan 19, 202 Member Of :	e ld: Staff:Unassigned 1						
view signature				☑ Edit	Applications	E Actions	Assign Staff	Мо
General	Family Members	Identities	Documents	Notes	Credit Report			
Credit	Bureau							
	eau* WORKS		-					

Select the .csv file (which should follow the format of Credit Bureau's template) and click on the upload button.

O. Accounting	🔟 Reports 🜓 Admin 🚢 Self Service	
	THITSAWORKS Home / Clients / THITSAWO	DRKS
	Upload Credit Report	
	Select CSV File	
	No file selected	Browse
	Please retain the value of the filename as per Documentation	on.

Invalid Request:

itution	0 Accounting	Lul Reports	🕈 Admin	📇 Self Service		 Close
тнітз	AWORKS Hom	e / Clients /	THITSAWORKS			
Credi	t Report: ThitsaWo	ks				
NRC* 12/Ka	MaRa(N)253426					
				Submit		
Bo	rrower Information.				Values	
м	ainIdentifier				Not Available	

creditBureau.Configuration.CONFIGURATION-NAME.is.not.available.

Configuration is missing, Here for Example: Configuration USERNAME is missing.

HTTP UNATHORIZED:

	and 1979 and the state of the state of	Language		
Ins	utution Bub Accounting 🔤 Reports V Admin 🚓 Self Service	HTTP_UNAUTHORIZED	Close	
	THITSAWORKS Home / Clients / THITSAWORKS			
	Credit Report: ThitsaWorks			
	NRC * 12/KaMaRa(N)253426			
	Submit			

This error will pop-up, when the configuration are not valid. (Mainly SubscriptionId and SubscriptionKey)

HTTP FORBIDDEN:

Institution 🚺 Acco	nting 🛄 Reports	🜓 Admin	Self Service			Close
THITSAWORKS	Home / Clients	/ THITSAWORKS	3			Cluse
Credit Report: T	itsaWorks					
NRC * 12/KaMaRa(N)253 -	26					
				Submit		
Borrower Informa	on.			Values		
MainIdentifier				Not Available		

IP is not whitelisted. Contact THITSAWORKS to make your static IP Whitelisted.

More Errors as follows:

User Inactive:

When the User is Inactive over a period of time.

Account Inactive:

When the Account Inactive, then try using the Configurations of another Accounts. Example: if currently there is use of mfi1 credentials then try using credentials of other mfi.

No record Found:

When there is no data of that particular NRC.

Invalid File Name:

Follow the template rules and make sure the File Name (for uploading) should be one of the following:

- 1. Active Loans.csv
- 2. Write Off.csv
- 3. CERP Loans.csv
- 4. Monthly active borrower count by township.csv
- 5. ThitsaID request form.csv