## **Audit Report**

Core Unit Name: DUX

Audit ID: 2022-12-DUX-001

Audit Cycle: 2022-12/1

Audit Date: 01-20-2023

CU published BS date: 01-19-2023

Audit Result: Needs action

Facilitator contact: @venture

Core Unit Clarification Received Date: 01-19-2023

 $Transparency\ Report: https://github.com/makerdao-dux/transparency-reporting/blob/main/Monthy\%20Budget\%20Statements/2022-12.md$ 

 $MIP40c3-SP26: \underline{https://forum.makerdao.com/t/mip40c3-sp26-development-ux-core-unit-budget-dux-001/9774}$ 

Audit Question  Audit Questions to the structure of the transparency report and consistency with DUX MIPAQC3-5P52 and Audit Questions to the structure of the transparency report in the right order. Actuals, Forecast, MKR vesting and a Transfer?  Are the sections in the transparency report in the right order. Actuals, Forecast, MKR vesting and a Transfer?  Does the actual section include breakdowns per wallet with Budget Category, Forecast, Actuals, a Destination of the structure of the budget forecast categories in the right order. Actuals, and a Transfer?  Does the actual section include breakdowns per wallet with Budget Category breakdown?  Ves.  Does the budget forecast summary and budget category breakdown?  Does the budget forecast summary contain the Global/total budget cap?  Ves.  Does the budget forecast summary contain the Global/total budget cap?  Ves.  Dull has adopted the standard MakerDAD nomenclature for the budget categories. No. DUX clarified the change of wallet address for one team member in Forecast categories in the transparency report the same as described in the MIPAQC3-5P52?  Are the budget forecast summary and budget categories. No. DUX clarified the change of wallet address for one team member in Forecast categories in the transparency report the same as described in the MIPAQC3-5P52?  As the operational wallet Multi-sig wallet setup the same as described in the MIPAQC3-5P52?  The Budget Categories in the controlled by the current DUX Core Unit team Address. Sociodomics Septimacy 2006-2006-2006-2006-2006-2006-2006-2006	MIPPUCS-SPS: INITIES://TOYUM.makerdao.com/v/mipPucs-sps:-exevelopment-us-core-unit-pugget-quix-unit-pugget-quix-yok MIPPUGS-SPS: https://forum.makerdao.com/v/mipPucs-sps:-exevelopment-us-core-unit-mit-pudget-quix-yok/sps:										
And the sections in the temperameny report in the right order. Actual, forecast, Motte variety and a controlled part of the controlled pa						Audit Assessment	Core Unit's Clarification		Medium Term CU Action to improve transparency report		
Let the department of the surface of		d									
Set the budget forecast summary and brackdoor contails the quarterly budget caper for comparison?   Vec.		<b>~</b>				Yes.					
Does the budget forecast summary and breakdown contains the quarterly budget cape for comparison?  Does the budget forecast summary contain the dischalf-budget cap?  At the budget forecast summary contain the dischalf-budget cap?  At the budget forecast summary contain the dischalf-budget cap?  At the budget forecast summary contain the dischalf-budget cap?  Budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary contain the dischalf-budget cap?  Does the budget forecast summary and breakded dischalf-budget dischalf-budget dischalf-budget cap?  Does the budget forecast summary cap.  Does the budget forecast summary and breakded summary contain the budget cap.  Does		<b>~</b>				Yes.					
Does the budget forecast summary contain the dicibal/total budget cap?  One the budget forecast summary contain the dicibal/total budget cap?  One the budget forecast summary contain the dicibal/total budget cap?  One the budget forecast categories in the transpersory report the aame as in the MINROS-39922  In the operational wallet multi-rig wallet setup the same as described in the MINROS-39927  In the operational wallet Multi-rig wallet setup the same as described in the MINROS-39927  In the operational wallet multi-rig wallet setup the same as described in the MINROS-39927  In the operational wallet multi-rig wallet setup the same as described in the MINROS-39927  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the distribution wallet wallet wallet setup the same as described in the MINROS-39927  In the operational wallet controlled by more than 1 signer?  In the operational wallet controlled by more than 1 signer?  In the operational wallet received funds to distribution wallet received funds to dop up the funds wallet receive	Does the budget forecast cover 3 months with summary and budget category breakdown?	~				Yes.					
DUX has elopiced the standard MakerOAD nomenciature for the budget depress in the transparency report the same as in the MIPAGL 5692?    DUX has elopiced the standard MakerOAD nomenciature for the budget depress for one team member elopic depression. In the compared of the same as described in the MIPAGL 5692?   It is the operational wallet Multi-sig wallet setup the same as described in the MIPAGL 5692?   Described as the DUX operational wallet outstood by more than 1 signer?   Dux has received the standard MakerOAD nomenciature for the budget designers. A conclusion of the standard MakerOAD one team member elopid plantage of the current DUX core Unit team. A conclusion of the current DUX cor	Does the budget forecast summary and breakdown contain the quarterly budget caps for comparison?	~				Yes.					
Less the persistant wallet setup the same as described in the MIP4Qc3-SP527  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet controlled by more than 1 signer?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?  All the DUX operational wallet neceive funds from the protocol?	Does the budget forecast summary contain the Global/total budget cap?	~				Yes.					
in feb 2022. ETH address the operational wallet Multi-sig wallet setup the same as described in the MIPAQL-SPS2?  is the operational wallet Controlled by the current DUX Core Unit tram Address: Statistical Stat	Are the budget forecast categories in the transparency report the same as in the MIP40c3-SP52?		<b>~</b>								
stee BOX operational wallet Controlled by more than 1 signers.  Yes. The Auditor Wallet requires 2 out of 2 confirmations. Auditor's wallet eth address: eth: 0x5A9904882ECEbCECTS3863CCdA902Be6352f89ad Signers. Accountant role wallet eth: 0xA2A855A990282ECEbCECTS3863CCdA902Be6352f89ad Signers. Accountant role wallet eth: 0xA2A855A990282ECEbCECTS3863CCD Auditor role wallet eth: 0xA2A855A990282ECEbCCTS3863CCD Auditor role wallet eth: 0xA2A85A990282ECEbCCTS3863CCD Auditor role wallet eth: 0xA2A855A990282ECEbCCTS3863CCD Auditor role wallet eth: 0xA2A85A900282ECEbCCTS3863CCD Auditor role wallet eth: 0xA2						In Feb 2022. ETH address eth:0x614.C7C6266AzE8eA08b19918aB2eDc4A1465745c was added February 8th 2022 and eth:0xf666e9288BDEfD84A9DEE179Ac226be16ec850DA was removed on February 9th 2022.  Operational wallet controlled by the current DUX Core Unit team Address: 0x8Cd0ad5C55498Aacb72b6689E1da5A284C69c0C7 Signers eth:0x14341f81dF14cA86E1420eC9e6Abd343Fb1c5bfC eth:0x388e9e5a882c4CeF37752C1AF7888758D5673eE eth:0x987A9ad5097adb860392ZA0b34d0633cb2daD6d eth:0x0797d7ea88440Aa933c9DdA8eBCF1C879F0a1018 eth:0xd88E5b5D1475898E3823c5Dfc620754A4f9342A			The Budget Implementation diagram in the MIP40c3-SP52 was updated with the new operational wallet eth address eth-0xc41cC7c66AaE8eA0Bb18918aB2eDc4A14 65745c and the removal of eth address eth-0xf666e928BBDEfD84A9DEE179Ac226be16e c850DA		
List the auditor wallet Multi-sig wallet setup the same as described in the MIP40c3-SP52?  List auditor's wallet eth address:  eth:04.049.049408428CCEEDCL13863CCdA9D28e6352f89ad Signers: Accountant role wallet  eth:04.042.04557.e292a928.045a317690875261535.c8320C  Auditor role wallet  eth:04.042.04557.e292a928.052a92e.045a31690023ea86e6  The Auditor Wallet received 804,191.45048903 DAI from the protocol  no November 2nd, 2022.  has the DUX auditor wallet sufficient funds to top up the Dux operational wallet?  List the Auditor Wallet's current balance is 522,479.6 DAI on January 20th, 2023.  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operational wallet received a top-up after the audit of the last transparency report?  Less the DUX operation wallet wallet wall to wall the protocol on November 2022.	Is the DUX operational wallet controlled by more than 1 signer?	<b>~</b>				Yes, the DUX operational wallet has a current policy of 3 out of 6 signers.					
Has the DUX auditor wallet receive funds from the protocol?  On November 2nd, 2022.  https://gnosis-safe.io/app/eth:0xSA994D8428CCEbCC153863CCdA9D  2Be6352f89ad/transactions/history  Pes. The Auditor Wallet's current balance is 522,479.6 DAI on January 20th, 2023.  Has the DUX operational wallet received a top-up after the audit of the last transparency report?  O12  Ves. DUX has received the requested funds in the November 2022.		✓				Auditor's wallet eth address: eth:0x5A994D8428CCEbCC153863CCdA9D2Be6352f89ad Signers: Accountant role wallet eth:0xA2A855Ac8D2a92e8A5a437690875261535c8320C Auditor role wallet					
1.11  Yes. The Auditor Wallet's current balance is 522,479.6 DAI on January 20th, 2023.  Has the DUX operational wallet received a top-up after the audit of the last transparency report?  Ves. DUX has received the requested funds in the November 2022.		<b>V</b>				on November 2nd, 2022. https://gnosis-safe.io/app/eth:0x5A994D8428CCEbCC153863CCdA9D					
0.12 Sec. DUX has received the requested funds in the November 2022.		<b>~</b>									
Audit Questions to Transparency Report - Section 1. Last Month Actuals -		<b>~</b>				Yes. DUX has received the requested funds in the November 2022.					
	Audit Questions to Transparency Report - Section 1. Last Month Actuals -										
Is the actuals budget category breakdown the same as in the MIP40c3-SP52?	Is the actuals budget category breakdown the same as in the MIP40c3-SP52?	~				Yes. DUX has adopted the standard MakerDAO nomenclature.					

## **Audit Report**

Core Unit Name: DUX

Audit ID: 2022-12-DUX-001

Audit Cycle: 2022-12/1

Audit Date: 01-20-2023

CU published BS date: 01-19-2023

١udi	t Result: Needs action								
acili	tator contact: @venture								
Core	Unit Clarification Received Date: 01-19-2023								
rans	sparency Report: https://github.com/makerdao-dux/transparency-reporting/blob/main/Monthy%20Budget%	%20Sta	atemei	nts/20	22-12.	md			
VIIP4	0c3-SP26: https://forum.makerdao.com/t/mip40c3-sp26-development-ux-core-unit-budget-dux-001/9774								
	0c3-SP52: https://forum.makerdao.com/t/mip40c3-sp52-development-ux-core-unit-budget-dux-001/12085								
	0c3-SP27: https://forum.makerdao.com/t/mip40c3-sp27-development-ux-core-unit-mkr-budget-dux-001/97	77							
1.2	Is the transparency report actual's forecast the same as the forecast last published for the same month?	<b>~</b>				Yes.			
1.3	Are the differences between forecast and actuals explained in the transparency report?	<b>~</b>				Yes.			
1.4	Are the DUX actual expenses within the montly MIP40c3-SP52 buget cap?	<b>~</b>				Yes.			
1.5	Are the DUX actual expenses within the Global/total MIP40c3-SP52 budget cap?	~				Yes.			
1.6	Has the DUX Compensation & Benefits any significant deviations between forecast and actuals?	<b>~</b>				The forecast is 88,428.44 DAI and the actual expense is 84,897.79 DAI, this results in a positive difference of 530.65.	DUX explains in the budget report that the difference is due to "Variation on estimate. No outstanding reason."		
1.7	Has the DUX Travel & Entertainment any significant deviations between forecast and actuals?	<b>~</b>				Yes. The forecast is 4,500 and the actual expense is 6,200.76, this results in a negative difference of 1,700.76.	"Higher acommodation costs."		
	Has the DUX Software Expense any significant deviations between forecast and actuals?					Yes, the forecast is 2,323.61 and the actual espenxe is 15,865.01, this gives a negative difference od 13,541.40. This expense is over the			
1.8				П		approved budget of 9,000 per month, however the total expenses are within the monthly approved budget cap.		Review comment.	
1.9	Has the DLIX Gas Expense any significant deviations between forecast and actuals?							Report the budget category even if the forecast is 0 and the actual is 0.	
						Yes, the forecast is 4,700 DAI and the actual expense is 10,388.59		DUX needs to review the actual amount for this	
	Has the DUX Admin Expense any significant deviations between forecast and actuals?					DAI, which gives a negative difference of 5,688.59. Credit card Top-ups should not be registered as Actuals only as payment. As the	"A credit card ton up of 5 1// 72 DAI was	category, top-up to be included as payment but the actual amount in the sheet should be 0. Correct this	
1.10				$\overline{\mathbf{v}}$		actuals will be registered once the CU gets the bank statement and	performed"	category and the total amount for Actuals.	
1.11	Has the DUX one-time expense any significant deviations between forecast and actuals?					This budget category was not reported in the Actual section.			
	Has the DUX Professional Services any significant deviations between forecast and actuals?					Yes. The forecast is 14,500 and the actual expense is 26,145. This expense is over the approved monthly budget cap of 15,000. DUX has clarified that an error ocurred in the registration of expenses in	"The contractor was paid for the month plus one	DUX should correct the error, the actual amount should be registered under the right category. The forecast does not need to change only the actual.	
1.12				$\checkmark$		this category therefore the actuals are high.	month in advance."	Review comment.	
1.13	Has the DUX presented the correct calculation of amounts for the actuals, forecast and difference?			<b>~</b>		The top-up amount needs to be reviwed.		DUX needs to review if the credit card top-up was registered as an actual and correct the Actuals section.	
1.14	Has the DUX any budget category that seems inconsistent and needs further investigation?	$\overline{v}$		П	П	No.			
	Audit Questions to Transparency Report - Section 2. Budget Forecast -					MIP40c3-5P82			
								Dux needs to have both Budget caps as one covers	
2.1	Does the transparency report display the MIP40c3-SP52 and the MIP40c3-SP82 caps for both total and budget categories?	П			П	The MIP40c3-SP82 Budget cap should be added to the budget forecast section		the month of January and the second covers the month of Feb and Mar 2023.	
	Are the montly and quarterly budget caps (both totals and per category) the same as in the MIP40c3-SP52					Yes. DUX needs to add the MIP-40c3-SP82 budget caps.		DUX needs to take action as indicated under assessment.	
2.4	And the property of the state is a second of the SAIDAGE COST and SAID AGE COST builded and a					Yes. DUX needs to add the MIP-40c3-SP82 budget caps.		DUX needs to take action as indicated under assessment.	
2.:	Are the months forecast totals within the BAIDADE2 DCDC2 and BAID ADE2 CD22 months hadret can?					Yes. DUX needs to add the MIP-40c3-5P82 budget caps.		DUX needs to take action as indicated under assessment.	
2.6	Has the DLIX presented the correct calculation of amounts for the hudget forecast?					Yes. DUX needs to add the MIP-40c3-5P62 budget caps.		DUX needs to take action as indicated under	
2.5	Audit Questions to Transparency Report - Section 3. MKR Vesting Overview -					ies. Don needs to add the Mir-4003-5P82 Dudget caps.		assessment.	
						Yes, the FTE is included in the MKR Vesting overview section of the		numerous de la constantina della constantina del	
3.1	Has the DUX indicated the number of FTE in the transparency report's MKR vesting overview?			V		transparency report. Dux needs to review the current FTE.  DUX needs to review the FTE and indicate the correct FTE for Dec.		DUX needs to take action as indicated under assessment.	
	Has the MKR vesting overview the same FTE comparing it to the MIP40c3-SP27?			122		DUX needs to review the FTE and indicate the correct FTE for Dec. 2022.		DUX needs to take action as indicated under	

Needs action before approval

## **Audit Report**

Core Unit Name: DUX Audit ID: 2022-12-DUX-001 Audit Cycle: 2022-12/1

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Audit Result: Needs action

Facilitator contact: @venture

Core Unit Clarification Received Date: 01-19-2023

 $Transparency\ Report: https://github.com/makerdao-dux/transparency-reporting/blob/main/Monthy\%20Budget\%20Statements/2022-12.md$ 

 $\label{linear_model} \begin{tabular}{lll} MIP40c3-SP26: $https://forum.makerdao.com/t/mip40c3-sp26-development-ux-core-unit-budget-dux-001/9774 \\ \end{tabular}$ 

MIP40c3-SP52: https://forum.makerdao.com/t/mip40c3-sp52-development-ux-core-unit-budget-dux-001/12085

MIP40c3-SP27: https://forum.makerdao.com/t/mip40c3-sp27-development-ux-core-unit-mkr-budget-dux-001/9777											
3.4	Are the MKR vesting dates the same as in the MIP40c3-SP27?	<b>✓</b>				No, the MIP40c3-SP27 includes the following vesting date December 2021 = 0 MKR. However, all other vesting dates are the same as in the MIP40c3-SP27.					
3.5	Is the MKR total budget cap in the transparency report the same as in the approved MIP40c3-SP27?	<b>~</b>				Yes.					
3.6	Has DUX changed the MKR amounts comparing it to the last published transparency report?	<b>~</b>				Yes. The MKR amount with vesting date Dec 31, 2022 has changed	DUX explains the budget statement that the reason for the change from 210.85 MKR to 180.6 MKR is sue to "One worker is part time.)				
3.7	Has DUX explained the MKR change in the transparency report?	~				Yes.					
3.8	Other observations	~				No.					
	Audit Questions to Transparency Report - Section 4. Transfers -										
	Does the DUX operational wallet balance match the transparency report current balance in the calculation made for the new transfer?	~				Yes.					
4.2	Are the payments from the operational wallet the same as in the actuals payments?	~				Yes.					
4.3	Are the MKR actuals in the MKR table correct?	~				Yes.					
4.4	Is the DUX auditor wallet current balance in MKR correct?	~				Yes.					
4.5	Other observations	~									