

DISCOVER FSC BLOCKCHAIN

Webinar, February 2024 Presenters: Steve Ball, Loa Worm, <u>Julie Smith</u>







Please place questions in the Q&A

We will make time at the end after the recording has been paused.

Blockchain FAQ is available at fsc.org/blockchain



AT A GLANCE

Today we lead the world's most rigorous and trusted forest certification system, trusted by NGOs, consumers, and businesses alike.



of consumers globally recognize the FSC logo companies licenced to promote FSC-labelled products

certifications that verify sustainable sourcing

and rigorous forest

certification system

NAVIGATING THE TIDE IN DATA REQUIREMENTS: FSC'S ROLE IN SUPPORTING GLOBAL SUSTAINABILITY EFFORTS

We are committed to supporting our stakeholders in the shifting compliance landscape and the increase requirement for data. Our approach involves offering innovative tools and resources, ensuring that companies not only comply but also find the workload reasonable and doable.

Advancing certification compliance



We're bringing together people and organizations to create new solutions for protecting the health and resilience of forests everywhere – at every step of the supply chain.



As the most credible global sustainable forestry solution, FSC certifications already deliver on numerous EUDR requirements.

FSC EUDR ALIGNED will enable companies throughout forest supply chains to meet their EUDR obligations.

FSC BLOCKCHAIN* will enable companies to track the material's journey through the entire supply chain, meeting EUDR traceability requirements and providing the ability to generate due diligence statements for submission to the EU.

FSC REGULATORY MODULE** will provide additional requirements enabling companies to meet EUDR deforestation, degradation, and legality requirements.

FSC's RISK MANAGEMENT FRAMEWORK*** will provide revised risk assessments aligned with the EUDR, relieving certified and non-certified operators from significant effort. **FSC's NEXT GENERATION RISK ASSESSMENTS** will become available, significantly relieving risk management efforts for companies.

From the forest to the shelf...







Traceability allows us to transmit product data along the supply chain





We can combine data in composite products





Technology scales to even the most complex supply chains

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For FSC Controlled Wood we capture the source data later in the chain





What is blockchain technology?



At the heart of blockchain technology is an immutable ledger that ensures the integrity of transaction data is ensured against malicious edits.



Public blockchain

Open and decentralized. All nodes verified by all other nodes and therefore highly energy consuming. Think bitcoin and similar.



Consortium blockchain

A semi-private, permissioned network where access is controlled, offering enhanced security and efficiency tailored to the industry.





PRODUCT TYPE & CLASSIFICATION

Record product categories as per FSC standards, with optional international HS codes for global trade and customs compliance.

FSC Blockchain Beta	Dash	board Record A Trade View Claim History Data Sharing 🔗 Account English 🗸
Home / RecordTrades / SingleTransaction		
Transaction Info	Sales Document ID *	Invoice Date *
	Sales Document ID	Invoice Date
	Batch ID *	
	Batch ID	
Product Details	Product *	
	Product	•
	FSC Category	HS Code *
	FSC Category +	HS Code
	Species	
	Species +	
Sustainability Claim	FSC Claim Type *	Percentage Claim
	Select an option 👻	Percentage Claim
Consignment Size	Quantity *	Total Volume (CBM) *
	Quantity	Total Volume (CBM)
Harvesting Info	Harvest Start Date *	Harvest End Date *
	Harvest Start Date	Harvest End Date
		Number Of Polygons
	Upload GeoJSON	Number Of Polygons
0		





SPECIES VERIFICATION

Confirm the exact species used in your product, ensuring authenticity and compliance.

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Transaction Info	Sales Document ID *		Invoice Date *	
	Sales Document ID		Invoice Date	Ö
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Product Details	Product *			
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	FSC Category		HS Code *	
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Sustainability Claim	FSC Claim Type *		Percentage Claim	
	Select an option	•	Percentage Claim	
Consignment Size	Quantity *		Total Volume (CBM) *	
	Quantity		Total Volume (CBM)	
Harvesting Info	Harvest Start Date *		Harvest End Date *	
	Harvest Start Date		Harvest End Date	Ö
			Number Of Polygons	
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VOLUME / MASS / WEIGHT METRICS

Flexible recording by volume or weight, with unit customization for market-specific requirements, like EUDR.

FSC Blockchain Beta		Dashboard Record A Trade View Claim History Data Sharing	Account English 🗸
Home / RecordTrades / SingleTransaction			
Transaction Info	Sales Document ID *	Invoice Date *	
	Sales Document ID	Invoice Date	Ö
	Batch ID *		
	Batch ID		
Product Details	Product *		
	Product		•
	FSC Category	HS Code *	
	FSC Category	+ HS Code	
	Species		
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Sustainability Claim	FSC Claim Type *	Percentage Claim	
	Select an option	✓ Percentage Claim	
Consignment Size	Quantity *	Total Volume (CBM) *	
	Quantity	Total Volume (CBM)	
Harvesting Info	Harvest Start Date *	Harvest End Date *	
	Harvest Start Date	Harvest End Date	
		Number Of Polygons	
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GEOLOCATION TRANSPARENCY AND HARVEST TIMING

Provide geolocation data for the source harvesting block and precise harvest start and end dates, an optional but significant detail for regulatory adherence.

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	Home / RecordTrades / SingleTransaction							
T	ransaction Info	Sales Document ID *	Inv	voice Date *				
		Sales Document ID		Invoice Date				
		Batch ID *						
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P	roduct Details	Product *						
		Product						•
		FSC Category	HS	Code *				
		FSC Category +		HS Code				
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s	ustainability Claim	FSC Claim Type *	Per	rcentage Claim				
		Select an option		Percentage Claim				
с	onsignment Size	Quantity *	Tot	tal Volume (CBM) *				
		Quantity		Total Volume (CBM)				
н	arvesting Info	Harvest Start Date *	На	rvest End Date *				
		Harvest Start Date		Harvest End Date				
			Nu	Imber Of Polygons				
		Upload GeoJSON		Number Of Polygons				
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COUNTRY OF PRODUCTION

Track the production country at each supply chain point, vital for compliance with regulations.

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Home / RecordTrades / SingleTransaction		
Transaction Info	Sales Document ID *	Invoice Date *
	Sales Document ID	Invoice Date
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Product Details	Product *	
	Product	•
	FSC Category	HS Code *
	FSC Category +	HS Code
	Species	
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Sustainability Claim	FSC Claim Type *	Percentage Claim
	Select an option 🔹	Percentage Claim
Consignment Size	Quantity *	Total Volume (CBM) *
	Quantity	Total Volume (CBM)
Harvesting Info	Harvest Start Date *	Harvest End Date *
	Harvest Start Date	Harvest End Date
		Number Of Polygons
	Upload Geo JSON	Number Of Polygons





UPLOAD ATTACHMENTS AND DATA

Add attachments and additional data fields to an individual trade.

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Home / RecordTrades / SingleTransaction						
Transaction Info	Sales Document ID *	_	Invoice Date *	_		
	Sales Document ID		Invoice Date			
	Batch ID *					
	Batch ID					
Product Details	Product *					
	Product			•		
	FSC Category		HS Code *			
	FSC Category +		HS Code			
	Species					
	Species +					
Sustainability Claim	FSC Claim Type *		Percentage Claim			
	Select an option	•	Percentage Claim			
Consignment Size	Quantity *		Total Volume (CBM) *			
	Quantity		Total Volume (CBM)			
Harvesting Info	Harvest Start Date *		Harvest End Date *			
	Harvest Start Date	1	Harvest End Date			
			Number Of Polygons			
	Upload Geo JSON		Number Of Polygons			
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How does a trade get verified on FSC Blockchain?





When is a trade matched?

Trading parties must agree on the following :

- FSC licence codes
- Invoice date
- Product category
- Species composition
- Quantity (either volume or weight, within a small margin of error)

If either of these does not match, the transaction will not be written to the blockchain as a matched claim but remain "unmatched"

Setting up FSC Blockchain





Configure products

Set up your products and their variations.

Product Code *	Product Name *	
Product Code	Product Name	
Trading Direction *	Select an option	
Select an option	✓ FSC Product Category	+
HS Code	Species	
HS Code	Species	+
Volume *	Weight	
m ³ • 0	kg 🗸 O	
Starting Inventory *		
0		



Configure trading partners

Connect to your trading partners and invite them to join blockchain.

Define Trading Partner		×
Licence Code ⑦	Certificate Code * ⑦	Site Code ⑦
Licence Code	Certificate Code	Site code 👻
Internal Reference ID ⊘	Organisation Name * ⑦	Partner Type * 💿
Internal Reference ID	Organisation Name	Select an option 👻
		Save Trading Partner



Video demo of FSC Blockchain

Avaliable in recording of webinar on fsc.org/blockchain

How can certificate holders upload data to FSC Blockchain?





Direct Entry

- Individual transactions recorded directly on the FSC Blockchain via the application website.
- User-friendly and accessible
- Mainly aimed at micro companies or companies occasional trade of FSC.



Bulk Uploads

- Bulk uploads of claims using spreadsheets
- Can cover multiple transactions over a specific period.
- Efficient for managing large volumes of data and periodic uploads.
- Expected to be the widest used method in the beginning.



API Integration

- Integration of FSC into own systems using an Application Programming Interface (API).
- Automates the data transfer in both directions.
- Will require IT investments from certificate holders in setup.
- APIs will be provided by FSC for the most commonly used platforms in key regions.

Blockchain: data confidentiality v transparency



Sensitive Commercial Data

A COMPANY'S SUPPLIERS AND TRANSACTION VOLUMES ARE HIGHLY SENSITIVE COMMERCIAL DATA

 Such data may also be subject to regulation where it might impinge upon stock prices



Encryption & Selective Decryption

ALL DATA ENCRYPTED AT POINT OF UPLOAD

- Data owner controls what data can be shared and with whom
- Customers can request access
- Rules system (like email sorting rules) allows for flexibility & precision
- Data sharing can be revoked at any time
- Even FSC will not have access to transaction data

Blockchain: data sharing flexibility





CHOOSE WHAT TO SHARE

- Supplier Identity
- Origin Data
- Attached Documents by category
- Risk Assessments & Mitigating Actions

CHOOSE BASIS OF SHARING

- Per Transaction
- Per Customer

CHOOSE RIGHTS GRANTED

- Requester can see data, but cannot share with others
- Requester can see data, and onward share with their customers without your pre-approval

CHOOSE PERIOD COVERED

- One transaction only
- All transactions within a defined period of time
- All transactions to date
- All future transactions

FSC Blockchain Indicative Timeline



Statements feature

released

Start Q3 2024

Ready, Set, Prep for FSC Blockchain

Beta Trials – informing the future of FSC Blockchain





Invitation from companies already in the trials

Current trial participants may invite up to 3 partners each.



Sign up for priority access

Indicate your interest via our online form on fsc.org/blockchain (Find the link in question 12 in the FAQ)

Support and training





RECURRING WEBINARS

Interactive live webinars provide real-time insights and expert answers to bring you up to speed with blockchain applications and updates.

GUIDANCE AND TRAINING MATERIALS

Training programs and comprehensive guides ensure you have the knowledge and skills to navigate FSC blockchain confidently

DEDICATED HELPDESK

Our dedicated helpdesk ready to assist users with technical or operational queries they may encounter.

Benefits of using FSC Blockchain









Automatic verification of certification status of suppliers & their certificate scope.

AUTOMATED COC REPORTING

FSC Blockchain will create reports on

- Volume summary
- Species list
- Product group list

ATTACHING LEGALITY DOCS

Users can attach and share critical documents, such as harvesting permits, to ensure they travel with the consignment data.



EASY DATA SHARING

FSC blockchain makes it easy to share data, e.g. harvesting location, with your downstream trading partners.

ALL DUE DILIGENCE DATA IN ONE PLACE

Everything you need to demonstrate due diligence collected together in one system.

All of your supply chain on FSC Blockchain





fsc.org/blockchain

Summary of what will FSC Blockchain does





- Licence Holders enter their purchases and sales of FSC-certified products
- Products are automatically checked against certificate scope and validity
- Transactions are matched against entries made by the counterparty – when a match is achieved the transaction is written to the Blockchain

- All data stored is encrypted decryption keys provided to downstream customers based on rules set by the supplier
- ✓ Data analytics and reporting available to all participants, simpler CoC auditing
- Linked to Digital Audit Reports & Risk Assessments, it will provide core data for EUDR Due Diligence reporting

The upcoming FSC Digital landscape

GIS Platform will manage forest

boundary data, including,

legal land parcels

optionally, cadastral data on

System under development / roll

Existing system to be upgraded

out



chains



provide consistent forest Unified Risk Assessment Framework so that data across FSC certified CHs can understand and visualize the forests & Controlled Wood deforestation risks present in their supply source forests

Thank you



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