



ICE CoT - Farm Plot Data Requirements Client Specification

September 2024

1. Overview	3
1.1. Supported Geo-Spatial File Formats	3
1.2. CTO Farm Data Separation	4
2. Tracking Changes to Farm Plots	4
2.1. Plot Version History.....	4
2.1. Validation of Mapping Date.....	5
2.2. Deactivation of Farm Plots.....	6
2.3. Farmers and Farm Plots	6
2.4. File Formats - Farm Plot Data Submission.....	7
2.5. Deactivating Farm Records - Submitted File Format.....	9



ICE CoT - Farm Plot Data Requirements

1. Overview

This document details the farm plot data requirements for the ICE CoT system and how that data will be processed.

Farm plot data will be managed by CTOs logging in to the ICE CoT web site and uploading data files containing records of farm plots that the CTO sources product from. Farm plot data will be managed on a per country and per commodity basis. For example, if a Commodity Trader or Operator (CTO) wishes to submit data for cocoa and coffee farm plots in Indonesia, and cocoa farms in Ghana, then these must be submitted as three separate files, as follows:

- Cocoa Farm Plots in Indonesia

- Coffee Farm Plots in Indonesia

- Cocoa Farm Plots in Ghana

After the farm plot data has been uploaded to ICE CoT, it will be fully validated using the validation engine developed with Meridia. IBA will make full details of the validation methodology publicly available, including the set of rules applied and any associated tolerances or configuration.

ICE CoT will generate a response file containing the results of the validation of the farm plot data records within the input data file. This response file will contain a result record corresponding to each record within the farm plot data input file and will include the corresponding status for every farm plot.

As well as the ability to upload farm plot data to the platform, ICE CoT will provide the ability to download the farm plot data currently held by ICE CoT, for a specified country and commodity. ICE CoT will additionally provide the ability to deactivate farm plots that are no longer required by the CTO.

Once farm plot data has been uploaded to the ICE CoT platform, CTOs can submit data for parcels which will include traceability data that refers to sourcing products from those farm plots.

1.1. Supported Geo-Spatial File Formats

The first geospatial format to be supported by ICE CoT for the farm data is GeoJSON.

This format has been chosen as it matches the format to be supported by the EU Information System, which is used for the submission of Due Diligence Statements.

1.2. CTO Farm Data Separation

ICE CoT will segregate farm plot data submitted by different CTOs. No CTO will have any visibility of the farm plot data submitted by any other CTO.

Note - when an CTO creates a parcel on ICE CoT that parcel must be associated with the plots of land that product from that parcel was sourced from. If that parcel is subsequently handed over within ICE CoT to another CTO, then certain details of the associated plots will be made available (Details of the visibility of traceability data for parcels that are handed over from one CTO to another, will be made available later.)

As part of the farm plot data validation ICE CoT will cross check farm plots submitted by the same CTO to ensure that they are consistent. For example, if a CTO submits two separate farm plots that significantly overlap, then the second plot to be submitted will be rejected due to this overlap. The CTO may then choose to revise one, or both, plots to resolve the issue.

Cross farm plot consistency checking will not occur across data submitted by different CTOs. If two separate CTOs submit significantly overlapping plots, neither plot will be rejected by ICE CoT.

2. Tracking Changes to Farm Plots

2.1. Plot Version History

ICE CoT will maintain a full history of farm plot data, to reflect how the farm plots change over time. When a parcel refers to a farm plot, the date on which product was sourced from the farm plot must be included within the traceability data for the parcel. The data used for a farm plot for this parcel, will be the data appropriate for this sourcing date. The versioning approach that is used within ICE CoT for farm plots is based upon the “mapping date” field within the farm plot data submission. (Refer to Section 2.4 for details of the fields within the farm plot data submission file.)

Consider the following case:

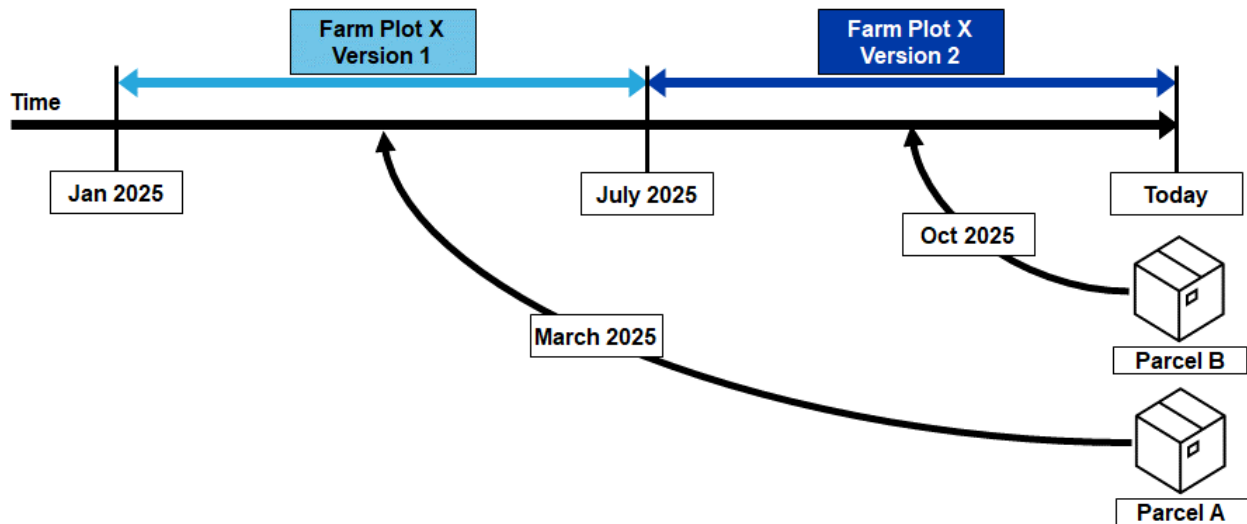
March 2025 - CTO uploads data for Farm X for the first time. The mapping date for the plot has been specified as Jan 2025. This creates the first version of this farm plot within ICE CoT. ICE CoT will validate the farm plot data and determine whether the plot has passed all ICE CoT tests.

September 2025 - CTO uploads revised data for Farm X. (For example, the farm has been remapped and as a result has a revised polygon.) The mapping date for the plot has been specified as July 2025. This creates a second version of this farm plot within ICE CoT that comes into effect from this mapping date. ICE CoT will re-validate the revised farm plot data and again determine if the plot has passed all ICE CoT tests.

January 2026 - CTO uploads details of Parcel A to ICE CoT, together with the associated traceability data showing which farms the product was sourced from. This parcel includes product that was sourced from Farm X in October 2025.

February 2026 - CTO uploads details of Parcel A to ICE CoT, together with the associated traceability data showing which farms the product was sourced from. This parcel includes product that was sourced from Farm X in March 2025.

In this case, these two parcels will each be referring to different versions of Farm X as shown below:



Parcel A - sourced product from Farm Plot X at a point in time when Version 1 of the data was in place for that farm plot. Version 1 of the farm plot data will be used for this parcel. For example, if a DDS is submitted for Parcel A, then the geospatial data included for Farm Plot X would be the data from Version 1.

Parcel B - sourced product from Farm Plot X at a point in time when Version 2 of the data was in place for that farm plot. Version 2 of the farm plot data will be used for this parcel. For example, if a DDS is submitted for Parcel B, then the geospatial data included for Farm Plot X would be the data from Version 2.

It is possible that the two versions of the plot have a different status. In such cases ICE CoT will ensure that the status of a parcel associated with a plot is dependent upon the status of the plot at the time that the parcel sourced product from that plot. For example, Version 1 could have passed all the ICE CoT tests but Version 2, because it had a new polygon that showed the plot expanding into protected forest had a status of Critical Error. In this case Parcel B would have a status of Critical Error but Parcel A would have a status of Valid - even though both refer to the same plot.

2.1. Validation of Mapping Date

The mapping date for a new or revised plot must not be after the current ICE CoT system date plus one calendar day. (To account for users in a time zone that is one day ahead of the ICE CoT system time.)

The mapping date for a revised plot cannot be before the most recent date for which there is a parcel that has sourced product from that plot.

2.2. Deactivation of Farm Plots

ICE CoT supports the deactivation of plots that a CTO no longer requires, or that are no longer being used. Any deactivated plot will be marked by ICE CoT as deactivated from the date specified by the CTO.

2.3. Farmers and Farm Plots

For ICE CoT the farmer is the link between the traceability data for a parcel and the associated farm plots. (Details of the traceability data that ICE CoT will require will be specified later.) The farmer associated with a farm plot should be whoever the CTO refers to within the traceability data that is submitted for products being sourced from the plot. ICE CoT will not be mandating whether the farmer that is specified should be the tenant, sharecropper, plot owner, etc.

ICE CoT will always assume that whenever any farm plot data is provided for a farmer within an upload file, then all of the plots for that farmer will be included within the farm plot data file being uploaded.

If at least one plot is present for a given farmer, then any existing plots for that farmer that are not included in the file will be assumed to be no longer be required and will be marked as deactivated from the date of the file upload.

For example, consider the case where an CTO has previously uploaded the following farm plots for a given farmer:

Plot ID = 1. All other attributes = Version 1

Plot ID = 2. All other attributes = Version 1

Plot ID = 3. All other attributes = Version 1

The CTO then uploads a file containing the following farm plot data for the same farmer:

Plot ID = 1. All other attributes = Version 1

Plot ID = 2. All other attributes = Version 2

Plot ID = 4. All other attributes = Version 1

After this upload the farm plot data held within ICE CoT for this farmer will be as follows:

Plot ID = 1. No changes, farm plot remains as Version 1

Plot ID = 2. Attributes for this farm plot have changed, so Version 2 of the farm plot is created.

Plot ID = 3. This plot previously existed for this farmer but is not present within this file. This farm plot will be flagged as deactivated.

Plot ID = 4. A new farm plot for this farmer. Created as Version 1.

2.4. File Formats - Farm Plot Data Submission

Category	Field Name	Type	Notes	Mandatory (M) or Optional (O) or Conditional (C)
Region	ProducerCountry	String (2)	2 letter ISO country code as defined here: https://www.iban.com/country-codes	M
Product	Commodity	String	“Coffee” or “Cocoa”	M
	Variety	String	Mandatory for Coffee, should not be used for Cocoa. Possible Values <ul style="list-style-type: none"> • Arabica • Robusta 	C
Farmer	CTOFarmerID	String	The identifier allocated to the farmer by the CTO. This field should be unique within the CTO.	M
	ProducerName	String	The name of the producer associated with the plot. For example, the name of the farmer	O
	NationalFarmerID	String	ID allocated by a national body. This will be available for some origin countries.	O
	AggregatorIDs	Array of Strings	A list of IDs for each aggregator that the farmer has an association with.	O
	DataProvider	String	If the plot data has been provided to the CTO by an indirect supplier, then this field should contain the name of that data provider. (Plots declared to have been provided by a data provider will not be consistency checked against plots from the CTO themselves or from other data providers.)	O
Plot	CTOPlotID	String (100)	The identifier allocated to the plot by the CTO Group. This field should be unique within the CTO Group, Country and Commodity.	M

	ProductionPlace	String	Name of the place of production	O
	NationalPlotID	String	ID allocated by a national body. This will be available for some origin countries. There is no validation for this field.	O
	DateOfMapping	Date	Date that data for this plot was last checked in YYYY-MM-DD format.	M
	Geometry	Geometry	<p>Possible Values:</p> <ul style="list-style-type: none"> • Polygon - The outline/border of the plot. • Point - The physical location of the plot. • MultiPoint - which must contain only one Point • MultiPolygon - which must contain only one Polygon 	M
	Area	Number (in hectares)	<p>Required if a GPS point is provided in Geometry rather than a polygon. If a value is provided then this will be used for farm yield estimates. If a value is not provided then this value will be set to a configurable default., (This default is likely to be based on commodity and country.)</p> <p>Note - a value of 4 hectares or more is invalid, as over 4 ha a polygon must be provided rather than a GPS point.</p>	C
Note	Note	String	<p>An optional text field to allow an Operator to include any required notes. This field can be used in any way that the submitter requires e.g. could be used to store additional data that the submitter has in their system that they want to keep associated with the plot.</p>	O

2.5. Deactivating Farm Records - Submitted File Format

The fields submitted when deactivating a plot are as follows:

Field Name	Type	Notes	Mandatory or Optional
ProducerCountry	String	ISO 2 letter country code. For example, "CI" for Côte d'Ivoire. As defined here: https://www.iban.com/country-codes	Mandatory
Commodity	String	"Coffee" or "Cocoa"	Mandatory
CTOFarmerID	String	The identifier allocated to the farmer by the CTO.	Mandatory
CTOPlotID	String	The identifier allocated to the plot by the CTO.	Mandatory
DeactivationDate	Date	YYYY-MM-DD format. The date from which the deactivation should apply.	Optional