



**Ministry of the Environment**

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# **Reflections and proposals on Interoperability of registries**

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Hybrid workshops relating to Article 6.2 and Article 6.4 of the Paris Agreement  
4<sup>th</sup> October 2024

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1. How do Parties view the application of “inter-registry transfers” within the interoperability provisions adopted in decision 6/CMA.4?
2. Should “pulling-and-viewing” be the only option for the international registry? Does this also apply to participating Party registries?
3. Should the international registry provide all the functionalities of a participating Party registry to Parties who choose to use the international registry?

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# Decisions relating to registry

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2/CMA.3, annex,

VI. Recording and tracking

A. Tracking

29. Each participating Party shall have, or have access to, a registry for the purpose of tracking and shall ensure that such registry records, including through unique identifiers, as applicable, authorization, first transfer, transfer, acquisition, use towards NDCs, authorization for use towards other international mitigation purposes, and voluntary cancellation (including for overall mitigation in global emissions, if applicable)

2/CMA.3, annex,

30. The secretariat shall implement an international registry for participating Parties that do not have or do not have access to a registry. The **international registry shall be able to perform the functions set out in paragraph 29 above.**

6/CMA.4, annex,

11. The **international registry is a consolidated system comprising each participating Party's registry sections,** with each section performing the functions set out in decision 2/CMA.3, annex, paragraph 29, and chapter I.A–B above.

13. **International registry sections shall be isolated from each other** on the user interface platform while maintaining the cross-sectional consistency of data.

Participating Party's registries as well as participating Party's registry sections comprised in the international registry record actions related to the use of ITMOs.

### What are to be recorded in registry

- A) Authorization
- B) First transfer
- C) Transfer
- D) Acquisition
- E) Use towards NDCs
- F) Authorization for use towards OIMP
- G) Voluntary cancellation  
(including for OGME, if applicable)

# Article 6.4 mechanism registry



3/CMA.3, annex,

H. Issuance

53. If the Supervisory Body decides that the verification, certification and their outcome meet the relevant requirements adopted by the Supervisory Body, it shall approve the issuance of A6.4ERs.
54. The **mechanism registry administrator shall, in accordance with the relevant requirements adopted by the Supervisory Body, issue the A6.4ERs into the mechanism registry.**
55. The mechanism registry shall distinguish A6.4ERs that are authorized for use towards the achievement of NDCs and/or for use for other international mitigation purposes pursuant to chapter V.C above (Approval and authorization), including any specified uses for which the A6.4ERs are authorized.

VI. Mechanism registry

63. The mechanism registry shall contain at least a pending account, holding account, retirement account, cancellation account, account for cancellation towards overall mitigation in global emissions and a share of proceeds for adaptation account, as well as a holding account for each Party and each public or private entity authorized per Article 6, paragraph 4(b), by a Party that requests an account where that entity meets the requisite identification requirements developed by the Supervisory Body. The mechanism registry shall be connected to the international registry referred to in decision 2/CMA.3.
64. The **mechanism registry shall be developed and operationalized in accordance with the relevant requirements adopted by the Supervisory Body** that shall include operating at best practice standards for registries.

## 3/CMA.3, annex,

63. The mechanism registry shall contain at least a pending account, holding account, retirement account, cancellation account, account for cancellation towards overall mitigation in global emissions and a share of proceeds for adaptation account, as well as a holding account for each Party and each public or private entity authorized per Article 6, paragraph 4(b), by a Party that requests an account where that entity meets the requisite identification requirements developed by the Supervisory Body. **The mechanism registry shall be connected to the international registry referred to in decision 2/CMA.3.**

## 6/CMA.4, annex I,

9. Where **participating Party registries are interoperable**, the Parties participating in a cooperative approach shall, **for the purpose of transferring ITMOs**, implement appropriate standards and procedures to mitigate risks to the consistency of data, including through communication of data about the transfer and reconciliation procedures within and between registries.

10. Interoperability of registries should be implemented in such a way that neither Party to an inter-registry transfer could later repudiate the existence, type, time or content of the transfer.

23. **The connection of the mechanism registry to the international registry shall, at a minimum, enable the functions referred to in paragraphs 9–10** (see 4 below) and be implemented in accordance with future decisions of the CMA,

24. A **participating Party may connect its registry to the international registry**. Such connections shall **apply the interoperability arrangements applicable to all registries as described in chapter I.B** (see 4 below) and other relevant future decisions of the CMA.



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# **Japan's response to the guiding questions**

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# “inter-registry transfers”

1. How do Parties view the application of “inter-registry transfers” within the interoperability provisions adopted in decision 6/CMA.4?

- Registries work for recording of actions related to the use of ITMOs (Glasgow, para29)
- Registries are/may be connected where data and information can be pulled and viewed each other.
- “inter-registry transfers” is thought to be communicating information of ITMOs, not transferring of underlying units of ITMOS.

6/CMA.4, annex I,

9. Where participating Party registries are interoperable, the Parties participating in a cooperative approach shall, for the purpose of transferring ITMOs, implement appropriate standards and procedures to mitigate risks to the consistency of data, including through communication of data about the transfer and reconciliation procedures within and between registries.

2. Should “pulling-and-viewing” be the only option for the international registry?

Does this also apply to participating Party registries?

- In principle yes.
- Additionally, the connection between the international registry and the mechanism registry enables the transfer of authorized A6.4ERs from mechanism registry accounts to a Party-specific extension of the international registry that functions as part of the mechanism registry (SB60 option2 para79).
- Parties may transfer A6.4ERs between Mechanism registry and participating Parties' registry if they meet interoperability provisions.
- Participating Parties' registries may connect to the international registry and may share action history.

## 3. Should the international registry provide all the functionalities of a participating Party registry to Parties who choose to use the international registry?

- Functions of the international registry are the functions set out in Para 29 of Annex, 2/CMA3.
- Some participating Parties may have other additional functions in their registries, such as issuance. However, the international registry does NOT have function of issuance (not set out in Para 29 of Annex, 2/CMA3).
- Partner countries and/or international organizations (including private entities) may assist issuance function.

2/CMA.3, annex,

VI. Recording and tracking

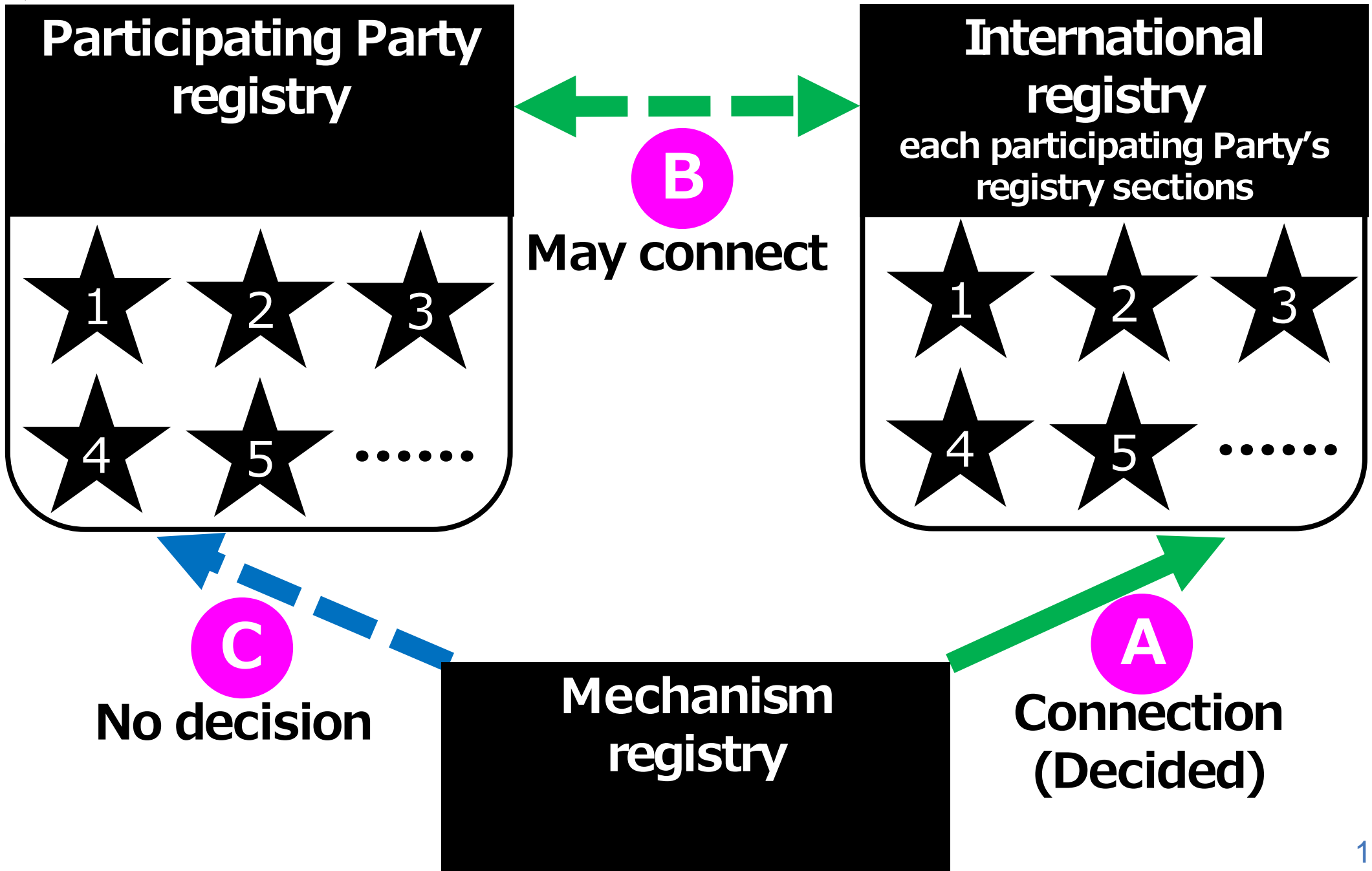
29. **Each participating Party** shall have, or have access to, **a registry for the purpose of tracking** and shall ensure that **such registry records**, including through unique identifiers, as applicable, **authorization, first transfer, transfer, acquisition, use towards NDCs, authorization for use towards other international mitigation purposes, and voluntary cancellation** (including for overall mitigation in global emissions, if applicable)

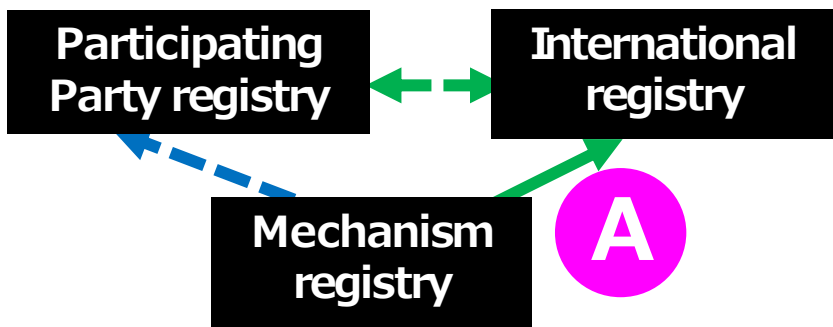
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# **Elaboration on Interoperability of registries**

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# Interoperability of registries





# Mechanism registry and the international registry

- Mechanism registry and the international registry is connected.
- Action history of A6.4ERs (authorization, first transfer, transfer, acquisition, use) shall be reflected through automated pulling and viewing of data and information on authorized A6.4ERs.
- Additionally, the connection between the international registry and the mechanism registry enables the transfer of authorized A6.4ERs from mechanism registry accounts to a Party-specific extension of the international registry that functions as part of the mechanism registry (SB60 option2 para79) .

**2/CMA.3, annex,**

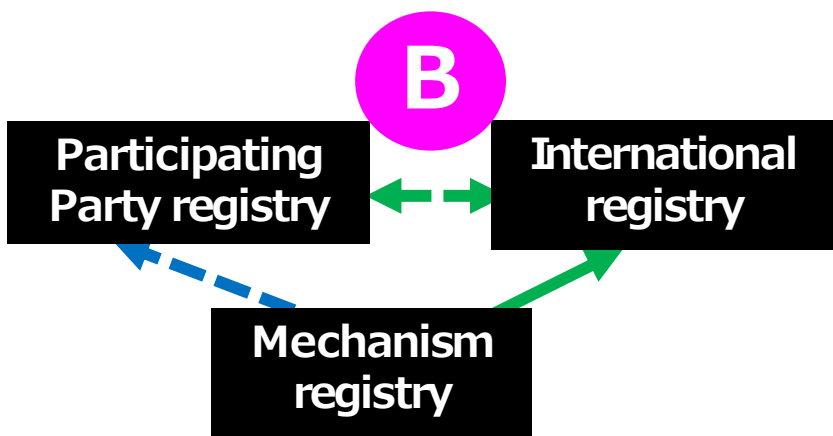
63. The mechanism registry shall be connected to the international registry.

**6/CMA.4, annex I,**

23. The connection of the mechanism registry to the international registry shall, at a minimum, enable the functions referred to in paragraphs 9–10 (see 4 below) and be implemented in accordance with future decisions of the CMA,

**7/CMA.4, annex I,**

49. The connection shall allow for automated pulling and viewing of data and information on holdings and the action history of authorized A6.4ERs for use by participating Parties that have an account in the international registry



## Participating Party registry and the international registry

- Participating Parties' registries may connect to the international registries
- Parties may share action history on ITMOs if they meet interoperability provisions for connection and bear the connection costs.
- Interoperability arrangements for connection will be developed by the UNFCCC Secretariat.

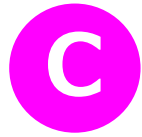
6/CMA.4, annex I,

24. A participating Party may connect its registry to the international registry. Such connections shall apply the interoperability arrangements applicable to all registries as described in chapter I.B (see 4 below) and other relevant future decisions of the CMA.



Participating  
Party registry

International  
registry



Mechanism  
registry

# Mechanism registry

And

# Participating Party registry

- Parties may transfer A6.4ERs between Mechanism registry and participating Parties' registry if they meet interoperability provisions for connection and bear the connection costs.
- Interoperability arrangements for connection will be developed by the UNFCCC Secretariat.

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# Summary

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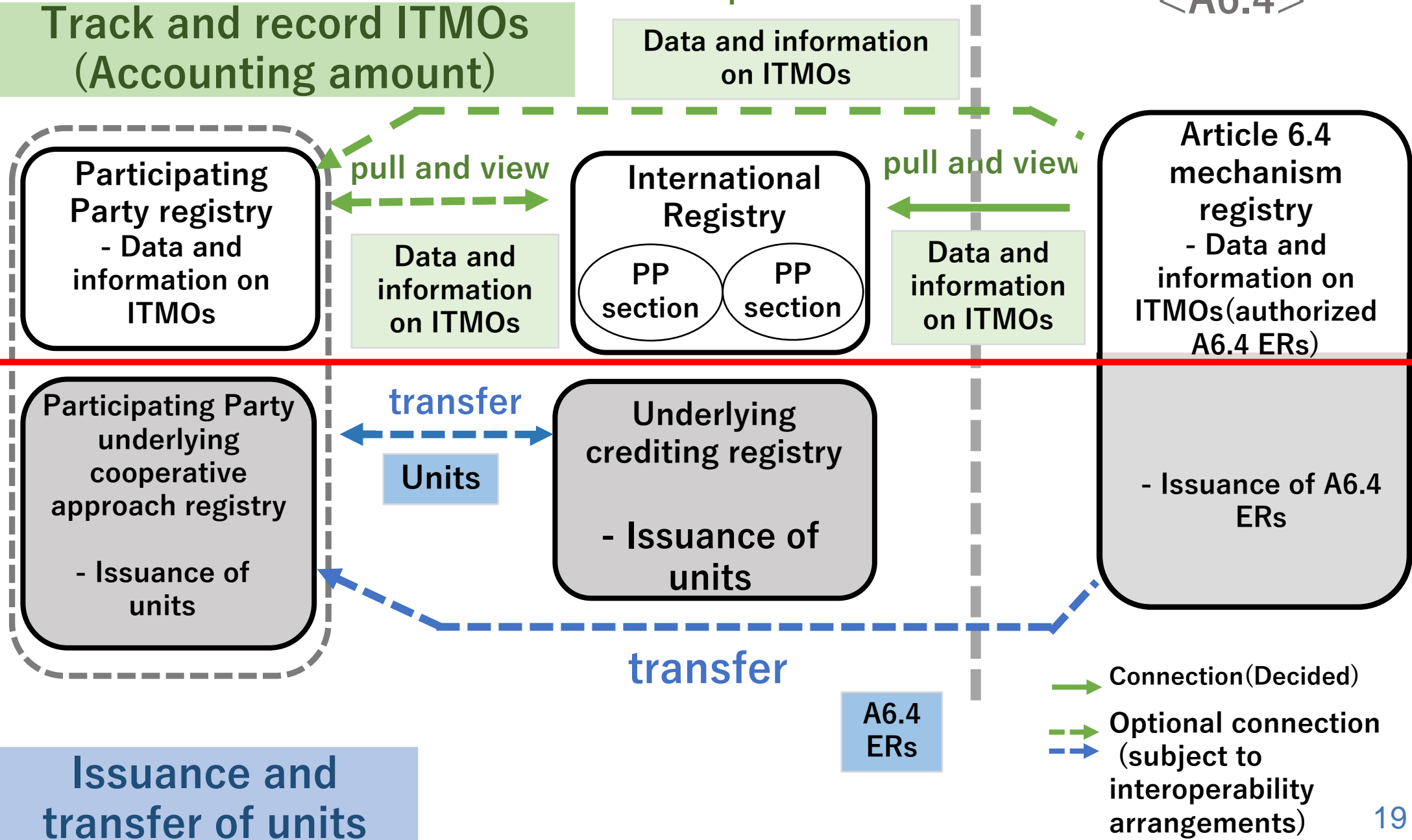
# Interoperable features of registries

<A6.2>

Track and record ITMOs  
(Accounting amount)

pull and view

<A6.4>



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# Reference

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2/CMA.3, annex,

## VI. Recording and tracking

### A. Tracking

29. Each participating Party shall have, or have access to, a registry for the purpose of tracking and shall ensure that such registry records, including through unique identifiers, as applicable, authorization, first transfer, transfer, acquisition, use towards NDCs, authorization for use towards other international mitigation purposes, and voluntary cancellation (including for overall mitigation in global emissions, if applicable)

6/CMA.4, annex,

1. Each Party participating in a cooperative approach referred to in Article 6, paragraph 2, shall have, or have access to, a registry for the purpose of tracking that:

(a) Has accounts for ITMOs, as necessary;

(b) Records the actions relating to ITMOs, including authorization, first transfer, transfer, acquisition, use towards NDCs, authorization for use towards other international mitigation purposes and voluntary cancellation (including for overall mitigation in global emissions, if applicable);

(c) Tracks, maintains records and accounts for ITMOs, including through unique identifiers;

(d) Provides access to the Party and other entities for which access is authorized by the Party to implement the actions referred to in paragraph 1(b) above;

(e) Produces, maintains and compiles records, information and data consistently with the annual information submitted in the agreed electronic format.

2. Electronic arrangements and other technical and administrative arrangements for registries shall be based on software that enables tracking and recording of ITMOs. Such registries should be maintained in accordance with administrative procedures and precautions to avoid or control risks relating to the consistency of data.

6/CMA.4, annex,

Tracking and recording methods

3. Each participating Party shall track and record ITMOs from a cooperative approach consistently during the NDC implementation period.
4. ITMOs shall be uniquely identified in a way that renders ITMOs traceable to the mitigation outcome(s) represented.
5. Each ITMO shall have a unique identifier. The unique identifier for each ITMO shall comprise at the minimum:
  - (a) The identifier of the cooperative approach;
  - (b) The identifier of the originating Party registry;
  - (c) The identifier of the first transferring Party;
  - (d) The serial number;
  - (e) The vintage of the underlying mitigation outcome.
6. ITMOs can be tracked and reported in blocks.

Actions and records

7. Each participating Party shall ensure that the registry records information and data on authorization, first transfer, transfer, acquisition, use towards NDCs, authorization for use towards other international mitigation purposes and voluntary cancellation (including for overall mitigation in global emissions, if applicable).
8. Each participating Party shall, in implementing its registry, achieve data integrity in tracking and recording ITMOs and enable reporting consistent with the agreed electronic format.

2/CMA.3, annex,

30. The secretariat shall implement an international registry for participating Parties that do not have or do not have access to a registry. The international registry shall be able to perform the functions set out in paragraph 29 above.

31. The international registry shall be part of the centralized accounting and reporting platform referred to in chapter VI.C below (Centralized accounting and reporting platform).

6/CMA.4, annex,

11. The international registry is a consolidated system comprising each participating Party's registry sections, with each section performing the functions set out in decision 2/CMA.3, annex, paragraph 29, and chapter I.A–B above.

12. The international registry shall consist of Party-specific sections and a section for the administrator of the international registry.

13. International registry sections shall be isolated from each other on the user interface platform while maintaining the cross-sectional consistency of data.

6/CMA.4, annex,

Accounts and actions

15. The international registry shall, for the purpose of tracking and recording ITMOs, comprise an electronic database and other technical and administrative arrangements and support the accounts and perform the operations set out in paragraph 1 above.
16. Accounts shall enable the tracking and recording of information in relation to the ITMO actions they record.

Others

18. Each participating Party that uses the international registry is responsible for tracking the underlying mitigation activities and mitigation outcomes and ensuring avoidance of double counting.
20. The international registry shall enable, for each participating Party, the automatic pre-filling of the agreed electronic format and of other quantitative information requirements pursuant to decision 2/CMA.3, annex, chapter IV (Reporting), including in relation to authorized Article 6, paragraph 4, emission reductions.
21. The international registry shall enable the production and dissemination of reports to the designated registry administrators of participating Parties on the history of holdings and actions in relation to accounts associated with the respective participating Parties.



## Draft version of the agreed electronic format (Annual information)

Draft version of the agreed electronic format is available digitally at <https://unfccc>

*{Required fields are in bold}*

**Table 1: Heading**

<b>Party</b>	Party
<b>Reported year</b>	Year

<sup>a</sup> The annual period from 1 January to 31 December during which actions occurred.

**Table 2: Actions**

<i>Article 6 database record ID</i>	<i>Cooperative approach<sup>a</sup></i>	<i>Unique identifier</i>			
		<i>First unique identifier<sup>b</sup></i>	<i>Last unique identifier<sup>c</sup></i>	<i>Underlying unit block start ID<sup>d</sup></i>	<i>Underlying unit block end<sup>e</sup></i>
					<i>1</i>

Cooperative approach  
Article 6.4 mechanism

<sup>d</sup> Underlying unit block start ID for ITMOs recorded on the basis of cooperative approach units tracked in **an underlying cooperative approach registry.**  
<sup>e</sup> Underlying unit block end ID for ITMOs recorded on the basis of cooperative approach units tracked in **an underlying cooperative approach registry.**

# Article 6.4 mechanism registry



## **3/CMA.3, annex,**

### H. Issuance

52. For the issuance of A6.4ERs, the designated operational entity shall submit to the Supervisory Body a request for issuance with the verification outcome and certification in accordance with the relevant requirements adopted by the Supervisory Body.
53. If the Supervisory Body decides that the verification, certification and their outcome meet the relevant requirements adopted by the Supervisory Body, it shall approve the issuance of A6.4ERs.
54. The mechanism registry administrator shall, in accordance with the relevant requirements adopted by the Supervisory Body, issue the A6.4ERs into the mechanism registry.
55. The mechanism registry shall distinguish A6.4ERs that are authorized for use towards the achievement of NDCs and/or for use for other international mitigation purposes pursuant to chapter V.C above (Approval and authorization), including any specified uses for which the A6.4ERs are authorized.

### J First transfer from the mechanism registry

58. At issuance, the mechanism registry administrator shall effect a first transfer of 5 per cent of the issued A6.4ERs to an account held by the Adaptation Fund in the mechanism registry for assisting developing country Parties that are particularly vulnerable to the adverse effects of climate change to meet the costs of adaptation.
59. At issuance, the mechanism registry administrator shall also effect a first transfer, for cancellation, of a minimum of 2 per cent of the issued A6.4ERs to the account for cancellation for delivering overall mitigation in global emissions in accordance with chapter VIII below (Delivering overall mitigation in global emissions).
60. The mechanism registry administrator shall forward or effect a first transfer, as applicable, of the remaining issued A6.4ERs in accordance with the instructions of the activity participants and with any further modalities adopted by the CMA and relevant requirements adopted by the Supervisory Body.

## 2/CMA.3, annex,

### K. Voluntary cancellation

61. Activity participants may voluntarily request the mechanism registry administrator to cancel in the mechanism registry a specified amount of A6.4ERs issued in respect of their Article 6, paragraph 4, activity.

### VI. Mechanism registry

63. The mechanism registry shall contain at least a pending account, holding account, retirement account, cancellation account, account for cancellation towards overall mitigation in global emissions and a share of proceeds for adaptation account, as well as a holding account for each Party and each public or private entity authorized per Article 6, paragraph 4(b), by a Party that requests an account where that entity meets the requisite identification requirements developed by the Supervisory Body. The mechanism registry shall be connected to the international registry referred to in decision 2/CMA.3.

64. The mechanism registry shall be developed and operationalized in accordance with the relevant requirements adopted by the Supervisory Body that shall include operating at best practice standards for registries.

65. The secretariat shall serve as the mechanism registry administrator and maintain and operate the mechanism registry under the supervision of the Supervisory Body.

## **3/CMA.3, annex,**

63. The mechanism registry shall contain at least a pending account, holding account, retirement account, cancellation account, account for cancellation towards overall mitigation in global emissions and a share of proceeds for adaptation account, as well as a holding account for each Party and each public or private entity authorized per Article 6, paragraph 4(b), by a Party that requests an account where that entity meets the requisite identification requirements developed by the Supervisory Body. The mechanism registry shall be connected to the international registry referred to in decision 2/CMA.3.

## **6/CMA.4, annex I,**

9. Where participating Party registries are interoperable, the Parties participating in a cooperative approach shall, for the purpose of transferring ITMOs, implement appropriate standards and procedures to mitigate risks to the consistency of data, including through communication of data about the transfer and reconciliation procedures within and between registries.

10. Interoperability of registries should be implemented in such a way that neither Party to an inter-registry transfer could later repudiate the existence, type, time or content of the transfer.

23. The connection of the mechanism registry to the international registry shall, at a minimum, enable the functions referred to in paragraphs 9–10 (see 4 below) and be implemented in accordance with future decisions of the CMA,

24. A participating Party may connect its registry to the international registry. Such connections shall apply the interoperability arrangements applicable to all registries as described in chapter I.B (see 4 below) and other relevant future decisions of the CMA.

## **Draft decision -/CMA.5**

### **Matters relating to cooperative approaches referred to in A6.2**

#### **X Additional functionalities and procedures for the international registry**

33. Recalls decision 6/CMA.4, annex I, paragraphs 9, 10 and 23, regarding the interoperability of participating Party registries and the connection of the Article 6, paragraph 4, mechanism registry to the international registry;
34. Decides that, in addition to enabling the ability to pull and view data and information<sup>3</sup> on holdings and the action history of authorized Article 6, paragraph 4, emission reductions, the connection between the international registry and the Article 6, paragraph 4, mechanism registry shall enable the transfer of authorized Article 6, paragraph 4, emission reductions (being internationally transferred mitigation outcomes pursuant to decision 2/CMA.3, annex, paragraph 1(g)) from the Article 6, paragraph 4, mechanism registry accounts to accounts within the Party-specific sections of the international registry;

# Additional functionalities and procedures for the international registry [SBSTA60]



## X Additional functionalities and procedures for the international registry

Option 1: {transfers of ITMOs between registries}

Option A

74. Recalls decision 6/CMA.4, annex I, paragraphs 9, 10 and 23, regarding the interoperability of participating Party registries and the connection of the Article 6, paragraph 4, mechanism registry to the international registry;
75. Decides that, in addition to enabling the ability to pull and view data and information<sup>9</sup> on holdings and the action history of authorized Article 6, paragraph 4, emission reductions, the connection between the international registry and the Article 6, paragraph 4, mechanism registry shall enable the transfer of [authorized Article 6, paragraph 4, emission reductions][all ITMOs (including authorized Article 6, paragraph 4, emission reductions)] (being internationally transferred mitigation outcomes pursuant to decision 2/CMA.3[, annex, paragraph 1(g),] [and decision 18/CMA.1]) from Article 6, paragraph 4, mechanism registry accounts to [the relevant [national][participating Party] registry or to] accounts within the Party-specific sections of the international registry [where applicable];

Option B

76. Recalls decision 6/CMA.4, annex I, paragraph 23, which states that the mechanism registry shall be connected to the international registry referred to in decision 2/CMA.3, annex, paragraph 30, and that the connection shall, at a minimum, enable the functions referred to in decision 6/CMA.4, annex I, paragraphs 9–10;
4. Clarifies that the Article 6.4 mechanism registry connection to the international registry shall enable the ability to pull and view data and information on holdings and the action history of authorized A6.4ERs and on the transfer of authorized A6.4ERs (internationally transferred mitigation outcomes) to the international registry, consistent with the interoperability arrangements applicable to all registries described in decision 6/CMA.4, annex I, chapter I.B (Interoperability), and other relevant future decisions of the CMA;
77. Decides that participating Party registries referred to in decision 2/CMA.3, annex paragraph 29, may voluntarily connect to the Article 6.4 mechanism registry, and the connection shall enable the transfer of authorized A6.4ERs, consistent with decision 6/CMA.4, annex I, chapter I.B (Interoperability), paragraphs 9–10, and the ability to pull and view data and information on holdings and the action history of authorized A6.4ERs;

# Additional functionalities and procedures for the international registry [SBSTA60]



## X Additional functionalities and procedures for the international registry

Option 2: {extension of the international registry that functions as part of the Article 6, paragraph 4, mechanism registry}

78. Recalls decision 6/CMA.4, annex I, paragraphs 9, 10 and 23, and decision 7/CMA.4, annex I, paragraph 49, regarding the interoperability of participating Party registries and the connection of the Article 6, paragraph 4, mechanism registry to the international registry;

79. Decides that, in addition to enabling the ability to pull and view data and information on holdings and the action history of authorized Article 6, paragraph 4, emission reductions, the connection between the international registry and the Article 6, paragraph 4, mechanism registry shall enable the transfer of authorized Article 6, paragraph 4, emission reductions (being internationally transferred mitigation outcomes pursuant to decision 2/CMA.3, annex, paragraph 1(g)) from Article 6, paragraph 4, mechanism registry accounts to a Party-specific extension of the international registry that functions as part of the Article 6, paragraph 4, mechanism registry, which shall support the acquisition, holding, transfer and cancellation or retirement of authorized Article 6, paragraph 4, emission reductions for Parties that request such services and in accordance with the operations and procedures of the Article 6, paragraph 4, mechanism registry, including for Party authorization of account access;

Thank you for your kind attention



**Ministry of the Environment**

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