



## **Migration guide: from PCS EC Integration Platform to PCS CB TAF/ TAP TSI interface**

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## Version history

Version	Release date	Author	Main changes
1	04.10.2023	Nicolas Jasinski (RNE – PCS IP and TAF/TAP TSI interface Product Owner)	First version of the document
2	26.06.2024	Nicolas Jasinski (RNE – PCS IP and TAF/TAP TSI interface Product Owner)	- Document title - Annex 1

## Purpose of this document

The main purposes of this document are to present the main differences and relevant aspects to be considered between the PCS Envelope Concept (EC) Integration Platform (IP) and the future PCS Capacity Broker (CB) TAF/TAP TSI interface, provide visibility to the companies already connected to PCS EC IP on the main changes with the TAF/TAP TSI interface and guide these companies through their migration.

Please note that this document does contain:

- Functional and technical specifications of the PCS CB TAF/TAP TSI interface and some of its content may differ in the final version of the functional and technical specifications of the PCS CB TAF/TAP TSI interface.
- Requires a general understanding of TAF/TAP TSI and does contain TAF/TAP TSI specifications.

## 1. Overview of the IP and the TAF/TAP TSI interface

	PCS IP	PCS CB TAF/TAP TSI interface
Structure of the request/messages	<ul style="list-style-type: none"> <li>Request with a structure based on PCS schema</li> </ul>	<ul style="list-style-type: none"> <li>Standard message structure based on TAF/TAP TSI</li> <li>Usage of elements (e.g., TypeOfInformation code) to indicate the action to be performed</li> </ul>
Acceptance/handling of the objects (e.g., path request)	<ul style="list-style-type: none"> <li>At territory level (it means all sub-path from the Applicant or IM timetable belonging to an RU-IM pair)</li> </ul>	<ul style="list-style-type: none"> <li>At object level (e.g, Path Request, Path)</li> </ul>
Outbound message flow (from PCS to an Applicant or IM)	<ul style="list-style-type: none"> <li>Coded notification specific to PCS</li> </ul>	<ul style="list-style-type: none"> <li>TAF TSI message</li> </ul>

## 2. Main schema elements

Please refer to annex 1 for more detailed information. Note: most of the elements not included in the annex 1 do not exist or have no equivalence in TAF/TAP TSI.

PCS EC IP (PCS schema element)	TAF/TAP TSI
<ul style="list-style-type: none"> <li>&lt;dossier_data&gt;</li> </ul>	<ul style="list-style-type: none"> <li>All objects linked to the Reference Train.</li> </ul>
<ul style="list-style-type: none"> <li>&lt;ru_im_pairs&gt;</li> </ul>	<ul style="list-style-type: none"> <li>ResponsibleApplicant</li> <li>ResponsibleIM</li> </ul>
<ul style="list-style-type: none"> <li>&lt;involved_agencies&gt;</li> </ul>	<ul style="list-style-type: none"> <li>LeadingRU</li> <li>ResponsibleApplicant</li> <li>ResponsibleIM</li> </ul>
<ul style="list-style-type: none"> <li>&lt;territory&gt;</li> </ul>	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
<ul style="list-style-type: none"> <li>&lt;path&gt; (as part of &lt;tt_applicant&gt; or &lt;tt_im&gt;)</li> </ul>	<ul style="list-style-type: none"> <li>Path Information</li> </ul>
<ul style="list-style-type: none"> <li>&lt;loco_idents&gt;</li> <li>&lt;train_cc_systems&gt;</li> <li>&lt;dangerous_goods_indications&gt;</li> </ul>	<ul style="list-style-type: none"> <li>PlannedTrainData</li> </ul>

<ul style="list-style-type: none"> <li>• &lt;national_im_parameter&gt;</li> </ul>	<ul style="list-style-type: none"> <li>• NetworkSpecificParameter</li> </ul>
<ul style="list-style-type: none"> <li>• &lt;times&gt;</li> </ul>	<ul style="list-style-type: none"> <li>• TimingAtLocation</li> </ul>

### 3. IDs

PCS EC IP (PCS schema element carrying an ID)	PCS CB TAF/TAP TSI interface (TAF TSI IDs)
<ul style="list-style-type: none"> <li>• &lt;dossier id="?"&gt;</li> </ul>	<ul style="list-style-type: none"> <li>• Reference Train ID (Train object)</li> </ul>
<ul style="list-style-type: none"> <li>• &lt;train_id&gt;</li> </ul>	<ul style="list-style-type: none"> <li>• ReferenceTrain ID (Train object)</li> </ul>
<ul style="list-style-type: none"> <li>• &lt;path id="?"&gt; (sub-path in the applicant timetable in PCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Path Request ID (Path Request object)</li> </ul>
<ul style="list-style-type: none"> <li>• &lt;path id="?"&gt; (sub-path in the IM timetable in PCS)</li> </ul>	<ul style="list-style-type: none"> <li>• Path ID (Path object)</li> </ul>

### 4. Main operations

PCS EC IP (web-service operation)	PCS CB TAF/TAP TSI interface (foreseen message)
<ul style="list-style-type: none"> <li>• createSingleDossier</li> </ul>	Path Coordination Message: <ul style="list-style-type: none"> <li>• Message header:               <ul style="list-style-type: none"> <li>○ Sender: company code of the leading applicant</li> <li>○ Recipient: 3178 (RNE)</li> </ul> </li> <li>• TOI: 30 – create dossier</li> <li>• Planned Transport Identifiers: TR ID.</li> <li>• Train Information</li> </ul>
<ul style="list-style-type: none"> <li>• updatePath and updateDossierRUIPair</li> </ul>	Path Details Message (sender: IM) or path Request Message (sender: applicant): <ul style="list-style-type: none"> <li>• Message header:               <ul style="list-style-type: none"> <li>○ Sender: company code of the sender</li> <li>○ Recipient: 3178 (RNE)</li> </ul> </li> <li>• TOI: depends on the phase and sender company type</li> <li>• Planned Transport Identifiers: PRID, ROID, TRIDv00, PAID</li> <li>• Path Information</li> </ul>

<ul style="list-style-type: none"> <li>• updateProgressStatus</li> </ul>	<p>Path Coordination Message:</p> <ul style="list-style-type: none"> <li>• Message header: <ul style="list-style-type: none"> <li>○ Sender: company code of the sender</li> <li>○ Recipient: 3178 (RNE)</li> </ul> </li> <li>• TOI: depends on the phase and sender company type</li> <li>• Planned Transport Identifiers: TR ID, CR ID</li> </ul>
<ul style="list-style-type: none"> <li>• getDossier</li> </ul>	<p>Object Info message</p> <ul style="list-style-type: none"> <li>• Message header: <ul style="list-style-type: none"> <li>○ Sender: company code of the sender</li> <li>○ Recipient: 3178 (RNE)</li> </ul> </li> <li>• Identifier: object for which information shall be retrieved</li> <li>• ObjectInfoType: R</li> </ul>

## 5. Relation between the Path object and the Path Request object

PCS EC IP	PCS CB TAF/TAP TSI interface
<p>No relation ("link" ) between the path offer and the path request. When an offer is submitted by an IM, the path request to which the offer is a reply to is not indicated in the WS request sent from the IM to PCS. If an applicant submits more than one path request as part of one territory, he shall interpret the received offers and identify which offer is a response to which path request.</p>	<p>Relation ("link") between the path offer and the path request. When an offer is submitted by an IM, the path request to which the offer is a reply to is indicated in the TAF TSI message sent from the IM to PCS. This information is stored in PCS. If an applicant submits more than one path request as part of one territory, he does have to interpret the received offers: the information is straight available to him.</p>