High-Level Meeting on
Deepening Digitalization of International Rail Transport in Asia-Pacific
13 - 15 May 2025, Xi'an, China

ELECTRONIC INFORMATION EXCHANGE
(BY CUSTOMS GENERAL ADMINISTRATION OF MONGOLIA AND THE ULAANBAATAR RAILWAY)

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ELECTRONIC INFORMATION EXCHANGE

(BY CUSTOMS GENERAL ADMINISTRATION OF MONGOLIA AND THE ULAANBAATAR RAILWAY

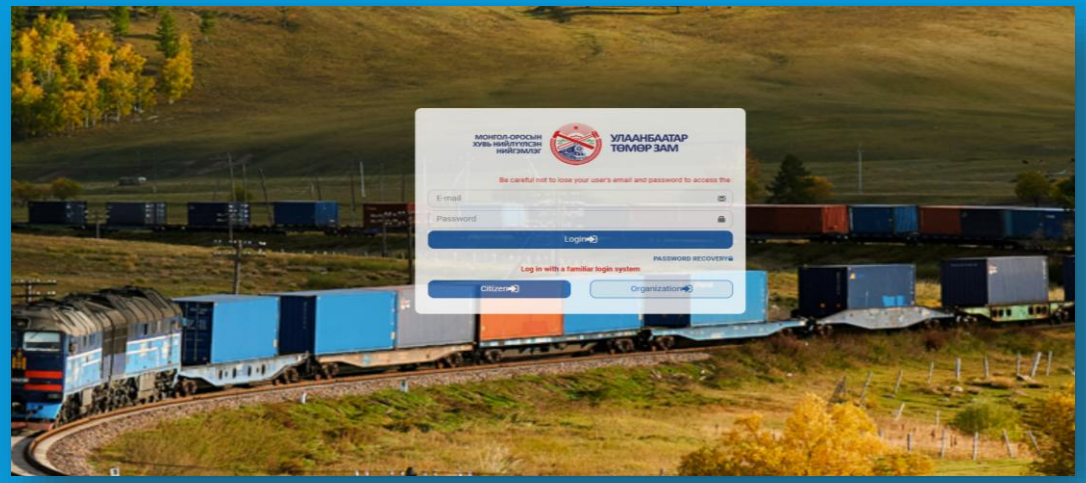
CEPS, CAIS

Customs Information System



ATMS, ATUTS

Railway Freight & Ordering Information System



According to the mandate of the Government of Mongolia, Customs General Administration of Mongolia and the Ulaanbaatar Railway have reorganized the joint working group for electronic information exchange, and have drawn up and implemented a work plan for the interconnection of information systems.

JOINT WORKING GROUP GOALS FOR 2023-2024

1. Creation of a secure technological network environment to interconnect the information systems of Customs General Administration and Ulaanbaatar Railway - VPN connection
2. Setting up connection settings for electronic data exchange servers and creating continuity of regular data exchange – Backend Service Servers
3. Agree on the format, rules, and definitions of the messages to be exchanged, and develop each information system – API dictionary
4. Test the Services and exchange electronic information
5. Transfer of the test procedure for introduction of use of electronic information exchanged in each information systems - Improve development

WORK DONE BY THE WORKING GROUP

In 2023,

- A technological network environment with protection to connect the information systems of Customs General Administration and Ulaanbaatar Railway was set up and started to be used.
- The working group experts has agreed on the electronic information format, transmission rules, and data dictionary for mutual exchange, and each of them is responsible for the development work.

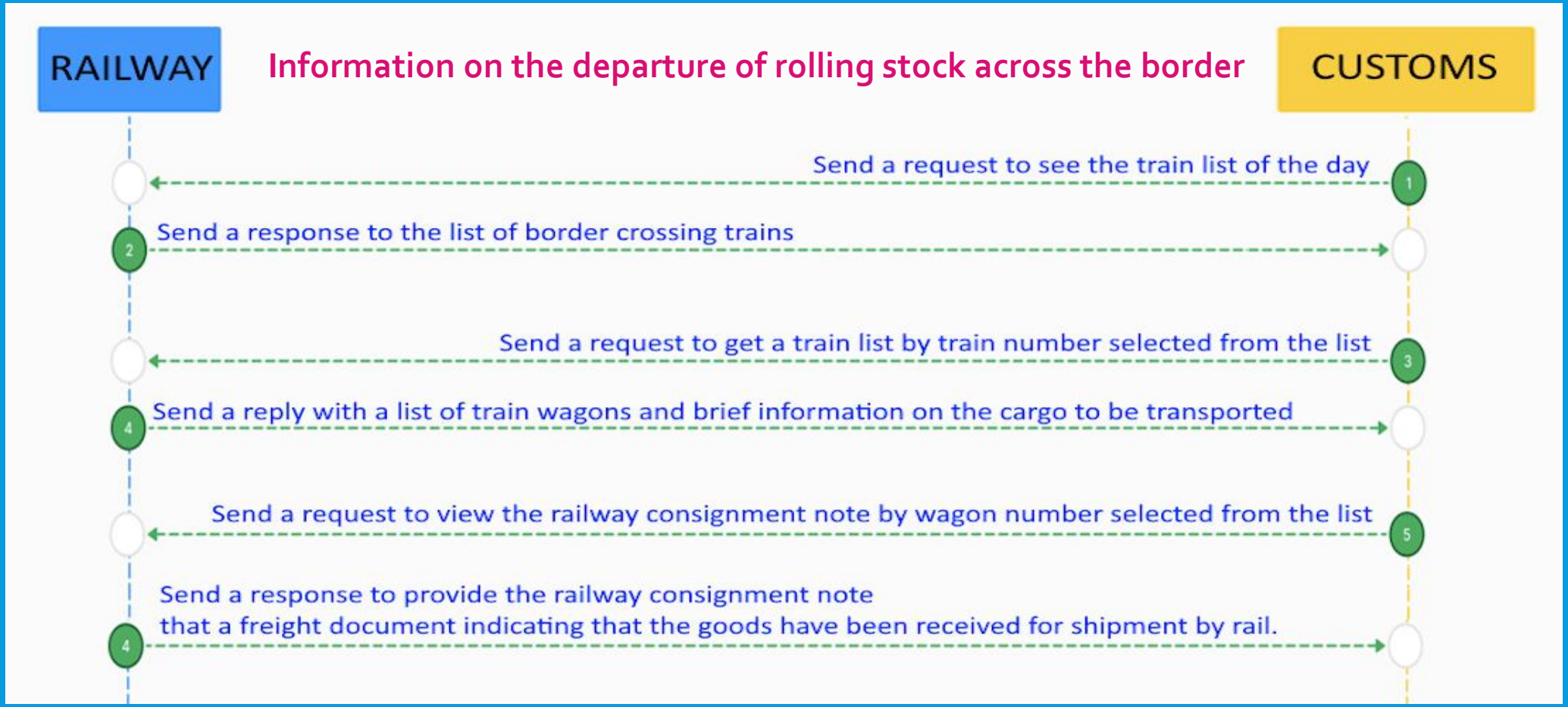
In 2024,

- API service has successfully tested the functionality of the technology for constantly transmitting the details of trains crossing the border in advance to the CEPS system, and put it into trial mode.
- CAIS system has successfully tested the API service to download and use cargo order information for export by Ulaanbaatar railway. The State Customs Inspector has successfully conducted a test of electronic submission of the decision on permission to cross the border after reviewing the information of the shipment order and the electronic information of the shipment to be exported by railway.
- Developed and successfully tested an API for downloading electronic copies of cargo accompanying documents attached to cargo customs declaration.
- In December, the General Customs Service and Ulaanbaatar Railway tested paperless technology to transfer trains with empty wagons to Russian Railways across the border with electronic transport documents. / Sukhbaatar – Naushka /

JOINT WORKING GROUP GOALS FOR 2025-2026

1. Development and testing of an API service for processing and sending forecasts of rolling stock and cargo of imported cargo trains entering the border.
2. Development and testing of an API service for processing and sending information about passenger train rolling stock and passenger names entering and leaving the border.
3. Incorporating the process of electronically giving and receiving customs inspector's permission for the export and entry of cargo trains to the information system of Ulaanbaatar Railway and Customs General Administration.
4. As part of the implementation of paperless transport technology, research the possibility of using digital signatures, electronic seals, and exchanging electronic copies of cargo accompanying documents, and develop and test APIs.

API DEVELOPMENT



API EXAMPLES

Get the train list of the day

type	train
date	2025-05-11

Body Cookies Headers (12) Test Results

{} JSON ▷ Preview Visualize


```
{
    "message": "success",
    "data": [
        {
            "entry_type": "ГАРАХ",
            "train_num": "1069",
            "locs": "M62MM №601 M62MM №602,",
            "head_num": "-",
            "train_type": "АЧААНЫ",
            "entry_date": "2025-05-11 16:58:00",
            "from_border_code": "68",
            "from_border_name": "Сүхбаатар",
            "to_border_code": "888",
            "to_border_name": "Наушки",
            "train_id": "3482107"
        },
        {
            "entry_type": "ГАРАХ",
            "train_num": "1027",
            "locs": "2T310MK №684 ",
            "head_num": "-",
            "train_type": "АЧААНЫ",
            "entry_date": "2025-05-11 14:50:00",
            "from_border_code": "68",
            "from_border_name": "Сүхбаатар",
            "to_border_code": "888",
            "to_border_name": "Наушки",
            "train_id": "3482061"
        },
        {
            "entry_type": "ГАРАХ",
            "train_num": "3611",
            "locs": "2T310MK №1339 ",
            "head_num": "-",
            "train_type": "АЧААНЫ",
            "entry_date": "2025-05-11 19:26:00",
            "from_border_code": "68",
            "from_border_name": "Сүхбаатар",
            "to_border_code": "888",
            "to_border_name": "Наушки",
            "train_id": "3482028"
        },
```


Get wagon list by the train id

type	wagon
trainid	3482061
Key	Value

Body Cookies Headers (12) Test Results

{} JSON ▷ Preview Visualize


```
{
    "message": "success",
    "data": [
        {
            "pos_no": "1",
            "wag_number": "95459897",
            "wagon_type": "кон",
            "owner": "гадаад",
            "railway_code": "20",
            "is_loaded": "ачаатай",
            "naklad_number": "35677305",
            "is_container": "тийм",
            "freight_name": "Чингэлэг ачаатай",
            "clean_wght": "16510",
            "tara": "19600",
            "wagon_id": "95167321",
            "packname": "Контейнер "
        },
        {
            "pos_no": "2",
            "wag_number": "54154190",
            "wagon_type": "кон",
            "owner": "гадаад",
            "railway_code": "20",
            "is_loaded": "ачаатай",
            "naklad_number": "35677299",
            "is_container": "тийм",
            "freight_name": "Чингэлэг ачаатай",
            "clean_wght": "14470",
            "tara": "25000",
            "wagon_id": "95167322",
            "packname": "Контейнер "
```

API EXAMPLES

Get a brief information of the railway consignment note which requested by wagon number and consignment number

	Key	Value	Description
☑	billno	35677305	
☑	wagno	95459897	

Body Cookies Headers (12) Test Results 200 OK · 175 ms · 1001 B

{} JSON ▷ Preview Visualize


```
{
    "message": "success",
    "data": [
        {
            "trans_no": "872",
            "trainno": "1293",
            "shift_id": "4649876",
            "zuuchcode": "6449549",
            "wagnums": "5771744",
            "toraildate": "2025-05-04 18:30:00",
            "to_way_id": "-",
            "main_no": "35677305",
            "from_country": "33",
            "from_stcode": "388010",
            "from_stname": "ПУТЯНЬ",
            "to_country": "20",
            "to_stcode": "181102",
            "to_stname": "СЕЛЯТИНО",
            "freightcode": "61159699",
            "freightname": "Носки мужские",
            "sendercode": "9999",
            "sendername": "Жеджианг Джиксау книтинг ко,лтд",
            "senderaddr": "-",
            "recievcode": "143345",
            "recievname": "ООО*СТС-ЛОГИСТИКА* 143345 Московская область Наро-Фоминский район р.п Селятино. здание То -1 То-2 для см графу 25",
            "recievaddr": "-",
            "bairnum": "1",
            "packcode": "CN",
            "sumtara": "3760",
            "sumclean": "12749",
            "sumweight": "16509",
            "conttoo": "1",
            "contnum": "PGKU-1101880",
            "conttype": "40",
            "lomtoo": "1",
            "lomnums": "ZH074762",
            "cuszone": "303003"
        }
    ]
}
```

CEPS EXAMPLES

Train information which imported from railway API service



Цувааны мэдээлэл

Огноо: 2024-11-11 | Дугаар: 7830 | Хайх | Цэвэрлэх

Орох гарах ялгаа	Гарах	Зүтгүүр дугаар	M62MM №581 M62MM №582,
Галт тэрэгний дугаар	7830	Эзэмшигч улс	MN - Монгол
Аяллын багийн тоо	1	Огноо	2024-11-11
Галт тэрэгний төрөл	Ачааны вагон	Хил нэвтрэх боомт	[B03301] - Замын-Үүд I Төмөр зам
Хяналтын бүс	[303001] - /Ачааны/ Авто замын цогцолбор - АЗШНЦ2		

Д/д	Вагон №	Эзэмшигч улс	Вагоны төрөл	Ачаатай эсэх	Чингэлэгтэй эсэх	Барааны нэр	Бохир жин
1	540013	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
2	547505	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
3	559104	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
4	558411	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
5	551697	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
6	541474	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
7	548214	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
8	549717	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00
9	541359	MN	OW	Тийм	Үгүй	Төмрийн хүдэр	72,000.00

MOST FUTURE CHALLENGES TO BE MEET

- It is only a matter of time before other private and state-owned railways in Mongolia open their border stations and enter into international transport relations, so it is recommended that Customs General Administration also conduct electronic information exchange at each border port railway station. Therefore, expand the working group for electronic information exchange and support and organize the work to include experts from other domestic railways.
- Customs General Administration and Ulaanbaatar railway are both Critical Information Infrastructure organizations by the Cybersecurity Law of the Mongolia. Therefore they must implement and execute law duties.

Thank you for your attention.



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