

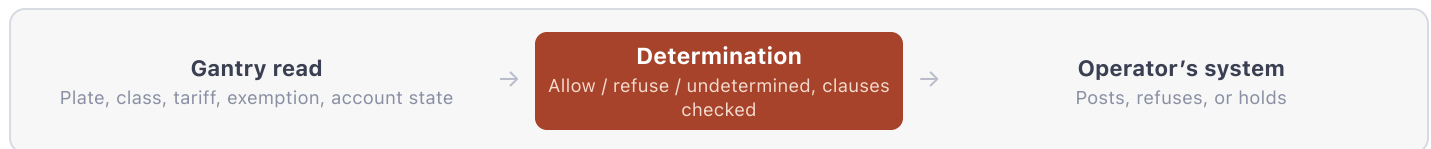


Authorization for machine charges and machine movement.

Before the money posts. Before the trip is released.

Allow, refuse, or undetermined, against the concession contract and the public floor.

Card networks decide whether a transaction is risky. Nothing decides whether a toll charge is the right amount under the concession contract, or whether a trip is inside the permit, before it happens.



We do not control the machine. The operator's own system enforces the determination.

ONE CONCESSION, RUN IN SIMULATION

8,966 of 10,000 passages determined without a person (8,163 charge posted, 803 no charge)

1,034 of 10,000 held on 2 open contract readings (TAR-06 936, TIM-01 98)

R\$ 148,20 between the two TAR-06 readings across 936 passages (R\$ 34.451,12 or R\$ 34.599,32)

502 charges posted at the wrong amount: 431 of 502 **refunded** at double without the determination, R\$ 3.373,01; with it, 398 of 502 post at the determined amount, 60 never post, 44 are held

Synthetic corpus of 10,000 passages against the public BR-101 Rio-Santos documents. Batch run, unsigned output. Counts describe the corpus, not traffic.

COST OF THE WRONG ALLOW

An improper free-flow charge is **refunded** at double within 7 calendar days, by the concessionaire.

Resolução ANTT 6.079/2026, art. 63-G

An unpaid passage is 10% of the concessionaire's loss with both notifications on an auditable record, 100% without.

19º Termo Aditivo, RioSP concession, cl. 5.3 I & III; proof condition cl. 5.2.1

1,324,797 of 3.8 million free-flow non-payment fines cancelled nationally, 29 Apr to 24 Aug 2026, after the underlying tariff was regularized.

Ministério dos Transportes, 24 Aug 2026; Valor, 2 Sep 2026

WHO IT IS FOR

Concessionaire

A determination in front of one real class of charge, with the counts above produced from your own passages.

Next: a 30-minute walk of the Rio-Santos determination.

Payments firm or integrated agent

The authorization message for a gantry or a dispatch, inside your rail.

Next: the integrated-agent role in the ANTT sandbox.

City, device operator, insurer

A determination before the machine moves; a refusal that cites the clause.

Next: the Chicago permit study.

HOW IT WORKS

Convert. The rule becomes a versioned clause register; what it omits is registered, not guessed.

Simulate. A synthetic population runs against it, showing what can be decided, at what refusal rate.

Determine. Each proposed charge or move gets allow, refuse, or undetermined before it happens.

Contest. When disputed, any party checks the determination against the register.

We do not claim our encoding is the law; we make it explicit enough to challenge.

THE CONCESSION'S AUTHORITY, END TO END

Charge. Checked against the concession contract as amended. Of the corpus: 8,163 of 10,000 allowed with an amount, 803 refused, 1,034 undetermined; R\$ 67.668,45 over the allowed.

CONTRAN 1.013/2024; ANTT 6.079/2026; RioSP concession, 19° & 20° Termos Aditivos; register: 93 entries, 81 determinate, 9 undetermined, 3 ungrounded

Refund. Checked against the double-refund rule. Of 502 wrongly posted charges: without the determination 431 refund at double, R\$ 3.373,01; with it, 398 post at the determined amount, 60 never post, 44 held.

Resolução ANTT 6.079/2026, art. 63-G

Notify. Checked against two notification clauses that disagree on the day. Of 318 unpaid passages: 11 at the 10% tier, 73 at 100%, 10 undetermined between the two texts.

19° TA cl. 5.2 I & 5.2.1; ANTT 6.079 art. 63-H

Report. Checked against reporting duties the texts leave open. Of the corpus: 1,278 of 10,000 chains carry an undetermined; 55 refused for want of a class, registered as a gap.

Resolução ANTT 5.999/2022 art. 8 VI b; TdR 001/SUOD/2023 cl. 5.2.11, 5.2.13, 13.1, 18.1.1

SAME LAYER, NEXT DOMAINS

Sidewalk devices: 0 of 10,000 synthetic trips authorized under Chicago's ordinance as written; 2,503 of 10,000 authorized under an illustrative permit, each refusal citing the clause.

The same four steps run in regulated payments: a 104-clause fraud-loss register, 42,188 determinations, contributed to the Monetary Authority of Singapore's consultation, August 2026.

LIMITS

1. All three run in batch, on synthetic populations; the live path awaits an engagement.
2. A determination proves what the engine decided, not that the authority agrees.
3. A live determination needs inputs the rule omits: the permit, rate tables, exemptions, account state.
4. The mandate for all four act classes is specified but unsigned; the studies carry no signed output.
5. Counts describe the corpus, not traffic; the tariff and index are unpinned; the permit file is illustrative.
6. Nothing here is a safety, savings, or new-regulation claim, and none describes any operator's operations.

THE SANDBOX

ANTT's free-flow sandbox is in public hearing 8 October, open for contributions to 23 October. We are looking for one concessionaire or one payments firm to run the four act classes on one real class of charge, from its own passages.

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