Transfer in the RPKI
draft-ymbk-sidrops-transfer

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We Can Do This

Transfer, within the RPKI, of actual address space and/or autonomous system number resources between two Internet Registries (ISPs, RIRs, NIRs, etc.) is reasonably achievable for most useful operational needs.
The *Swing Point* is the IR at the lowest point in the RPKI hierarchy which the seller and buyer have as a common parent and which has agreed to be used as the agent of transfer.
Simple Transfer

1 - Seller Separates Resource(s) to be Transferred
2 - Tells Swing Point
3 - Swing Point may Separate Resource(s)
4 - Swing Point Delegates to Buyer
5 - Swing Point Withdraws from Seller when Agreed
“Torn Euro” Protocol

• How does the swing point know that seller and buyer have ‘settled?’

• Remember

4 - Swing Point Delegates to Buyer
5 - Swing Point Withdraws from Seller when Agreed

• When the swing point receives both halves of a torn Euro bill

• Steve Kent was going to write the protocol
Seller Indirect of Swing Point

For the details, read our paper 😊
Buyer Indirect of Swing Point

For the details, read our paper 😊
There is a Problem

1 - Seller Separates Resource(s) to be Transferred
2 - Tells Swing Point
3 - Swing Point may Separate Resource(s)
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RIRs' 'Stats' Files Preclude 4
The RPKI Can Do It

Multiple IRs may have Certs and ROAs for the same resource(s)

The RIRs have a problem
Their ‘Stats File’ allows only one entry per resource
This Precludes
Make Before
Break
Break Before Make is NOT Operationally Viable
Where and How Do We Go From Here?

• Both with the Transfer document

• And helping the RIRs to become unstuck from the only-one-LIR-per-resource problem