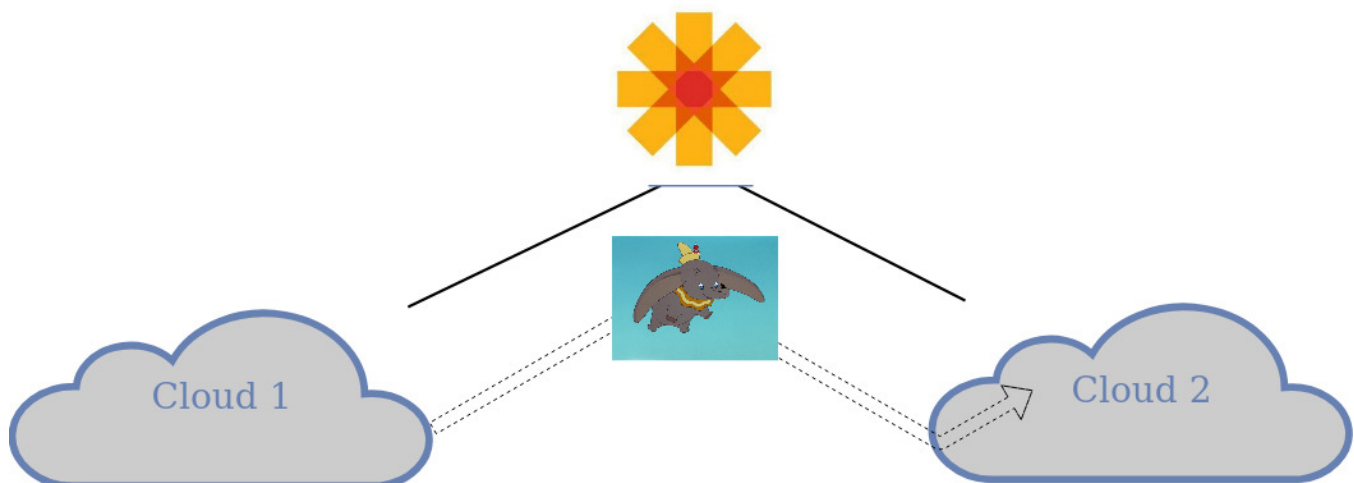# IPoverAC

## Name

IPoverAC

## Repo Name

ipoac

## Description

The RFCs 1149 and 6214 describe a solution to convey respectively IPv4 and IPv6 datagrams over alternative transmission channels.
Although the medium described by these RFCs has many assets, the main drawback in the proposed approach is the regular and numerous maintenance interventions, also called rest periods, induced.
Such interventions are needed to guarantee the efficiency of the associated channels over time.
This projects aims at providing a restful controller that monitors their loads in order to evaluate and manage efficiently the needed rest periods in OpenDaylight.

## Scope

This would be an OpenDaylight self-managed project.
The technology for the medium described initially in the RFCs has been obsoleted by more efficient techniques that can carry more data and can provide better error correction system.
All these techniques are not standardized but most of them are available in the Zebra Crossing library published under the Apache 2 License.
These techniques will be preferred over the legacy ones since they allow up to 2,953 bytes of payload per item, what provides an equivalent to Ethernet Jumbo Frame.
This makes such solutions well suited to the first targeted use-case, which is cloud data replication such as in the schema below.



## Resources Committed (developers committed to working)

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## Initial Committers

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## Vendor Neutral

License is compatible (Apache 2 License)

## Meets Board Policy (including IPR)