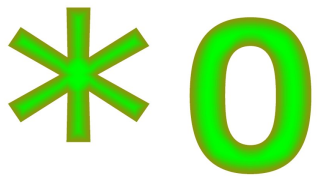

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TechnoDelta
Case Study Summary

TechnoDelta is a VoIP carrier with his headquarters in Stratford NJ USA. It also has offices in Germany and Turkey.

As one of the VoIP carriers, they decided to use SIP hardware for their customers. However, the main upstream carriers are using the H.323 protocol. They requested for a solution that passes the SIP calls to the H.323 providers but without passing the data through that gateway. Actually, they requested a H.323 – SIP signaling proxy.

We decided to use Yate since it was the only one free and stable H.323 solution we knew and we were been able to build on top of that.

Yate H.323 module is built based on OpenH323, one of the best VoIP software libraries. However, H.323 was just a part of the job and we lacked the SIP support in Yate. We had already experience regarding SIP and we have tried to use a few GPL SIP stacks but all of them have been either unstable or not flexible enough for a gateway. So we decided to build our own SIP stack, based on the internal engine of Yate.

Another problem for this SIP stack was to make it flexible and especially stable. We have also tried to make it usable for other programs like a SIP client or a SIP proxy, so that the free software community can use it also.

We have built the core of the stack in about 3 weeks, and then it

took another week to make it pass calls directly from a SIP client to a H.323 client without data passing trough Yate.

It took another 3 weeks to make tests since the SIP gateways are very different, and the same goes for the H.323 gateways, but in the end it was passing all the tests.

Because our solution was passing the data directly between endpoints, they saved each month money spent on the bandwidth, and they got a very flexible routing system that allows them to grow on the market.

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