

XConnect Private Federations

Customized solutions for peers, based on needs and policies, all securely managed by XConnect

What is a Private Federation?

A federation is a group of service providers who agree to multi-laterally exchange calls with each other via IP, based on a set of administrative terms for settlement, policy and interconnection.

Value proposition

The goals of the federation can be as varied as its policies and participants. The main benefits of forming a Federation are:

OPERATIONS

reduce capex and opex by developing multi-lateral peering relationships that provide a single interconnect and point of contact

REDUCING TRANSIT COSTS

bypassing unnecessary intermediaries by terminating calls directly

PROVIDING ADVANCED VOIP FEATURES

generate new revenue by offering wide band codecs, video, IM integration on a cross-network basis

federation for MSOs in the world, the SIP Exchange (SIPX) in The Netherlands, and in the first VoIP peering federation in Latin America.

How it works

The process of forming a private strategic federation is simplified by XConnect's expertise and guidance. The first step is a strategy session to determine the scope of the federation's services. Once the prospective members are agreed, a proof-of-concept trial may be scheduled, to demonstrate interconnection of federation members. Following approval the commercials are finalized and the federation prepared for live traffic. The creation of the Federation is a political and technical process, with XConnect acting as an experienced partner and facilitator for the parties from concept through to production.

XConnect's Federation Experience

XConnect has experience developing NGN and VoIP Peering federations world-wide. XConnect's management team are among the pioneers of the federation concept and are significant contributors to the IETF on the subject, leading the industry to state of the art approaches to peering. XConnect has also played a dynamic role in realizing the first

“Following a rigorous review, we selected the XConnect SIP-Exchange Service to provide full VoIP Peering to our Members”

**SIKKO DE GRAAF, DIRECTOR, CAIW
REPRESENTING THE CABLE OPERATORS
OF THE NETHERLANDS.**

Federation Options

XConnect designs federations to suit your needs. Previous deployments have included many of the following design considerations:

- **Services:** On-net calling between members, off-net termination from members to the PSTN, off-net origination from the PSTN into federation members.
- **Settlement:** Settlement free, pay per minute, pay per call
- **Scope:** Registry + Interconnect, or a Registry-only approach
- **Signaling Protocols:** SIP or H.323
- **Transport:** possible over any IP infrastructure
- **ENUM:** XConnect local directory server (LDS), XConnect Hosted Directory Server, or third party ENUM server

XConnect Federations manage the six building blocks of Peering. We design the federation to meet your needs, with flexible options and policies.

PHYSICAL TRANSPORT

Standard IP Peering / Connectivity:
Public, Private or Ethernet

DISCOVERY / LOCATION (ENUM REGISTRY)

Call-by-call routing intelligence. Matching telephone numbers with IP devices on networks

SIGNALING INTEROPERABILITY

Provide support for different protocols, variants and implementations

POLICY TRUST AND SECURITY

Determine which calls will be received from and on what basis. Protect subscribers from abuse (SPIT, vishing)

MEDIA HANDLING

NAT traversal and codec compatibility

COMMERCIAL

Settlement based; per minute, per session, or settlement-free (bill and keep)

ABOUT XCONNECT GLOBAL NETWORKS

London-based XConnect is the leading provider of secure, ENUM based Peering Federations. XConnect's services enable telecom companies

to offer rich multimedia IP communications on a cross-network basis and reduce interconnection costs. Backed by Tier1 Venture Capital

firms including Accel Partners and Venrock Associates, XConnect was selected by the cable industry in the Netherlands to operate the first national VoIP peering solution, and has lead industry consolidation via the acquisition of the European carrier ENUM exchange, e164.info and US-based peering service IPeerX Inc. For more information, please visit www.xconnect.net.

