

# XConnect National Federations™

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

### What is a National 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 NEXT GENERATION MULTIMEDIA SERVICES

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 the first National VoIP peering federation in Korea in partnership with the Korean Neutral Internet eXchange (KINX).

### 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) or XConnect Hosted Directory 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

The global leader in network peering, XConnect is trusted by more than 100 IP-based service providers to offer a suite of Interconnect 2.0 services, including Carrier ENUM-registry and next-generation multimedia interconnection hub solutions. London based XConnect offers the most comprehensive and reliable solutions to help service providers deliver rich multimedia IP communications on a cross-network basis while increasing service quality and reducing costs. Backed by Tier 1 venture capital firms, XConnect operates the largest worldwide ENUM-based IP-peering federation, the Global Alliance, and the world's first national VoIP/NGN interconnection federations, in the Netherlands and Korea. For more information, please visit [www.xconnect.net](http://www.xconnect.net).

