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Nabto – Connect simple and secure

Nabto in Video Solutions



www.nabto.com

REMOTE ACCESS INCREASES PRICE AND PROFIT **COULD**



BENEFITS OF P2P SOLUTIONS IN GENERAL

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NABTO'S PEER-TO-PEER SOLUTION

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- \bigcirc A solid, secure and high-performing platform – Scandinavian quality software
- Ø Platform in production since 2009
- Ø 1,000.000+ devices deployed on 4 continents as of Q1 2016
- \bigtriangledown Extremely simple to integrate and operate
- Ø Unsurpassed P2P ratio – symmetric NAT traversal yields 96% success in real life deployment



Fluent Technical and Business support in English, Mandarin, German, French and the Scandinavian languages

THE NABTO BASESTATION (P2P SERVICES)

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- The Nabto Cloud distributes clusters of basestations all around the world
 - The device automatically registers with a basestation in the closest datacenter

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- The client automatically locates devices across datacenters
- Ensures best possible performance and high availability
- Everything happens automatically, vendor does not have to worry about where devices or users will be located

VIDEO PLAYER APPLICATIONS – SDK OR APPS

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- Or custom apps can show video feeds through extremely simple integration:
 - 1. Open Nabto tunnel to Nabto device
 - 2. Connect RTSP client to local RTSP proxy opened by Nabto SDK
 - 3. Nabto securely transmits data from RTSP server on device to client player
- Supports Windows, OS X, Linux, iOS and Android

nabtoStartup();

```
s = nabtoOpenSession(userid, passwd);
tun = nabtoOpenTunnel(s, host, port);
rtspPlayer.play("localhost", port);
// voila!
```

THE NABTO CLIENT SDK - CONNECTING

Scan QR

For the initial connection to device, the user has several options:

- Scan a QR label on the camera using smartphone camera
- O Discover the device on the local network with a BonJour[™] style mechanism
- Manually enter the device address printed on the camera



... or discover on local network

60-fc-42.vendor.net

.. or manually enter address



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You just need to obtain the device id in some way and pass it to the tunnel open function in the API.

The API has a simple function to get a list of device ids on the same local network.

THE NABTO DEVICE SDK

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Supports several target platforms out of the box – including all Linux flavors on any architecture with a GCC toolchain.

Nabto is happy to assist to build optimized binaries for your specific platform if you can provide a GCC toolchain.

- 2. Install and start the Nabto Tunnel (it acts as an RTSP reverse proxy)
- 3. Start the RTSP client as described earlier
- 4. Nabto automatically creates a secure tunnel to the RTSP server on the camera

SECURITY IN THE NABTO PLATFORM

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- The platform has been designed from the ground up with security as a focal point
- Uses same technology as home banking solutions
- RSA/X509 authentication of clients and shared secret based auth of devices
- End-to-end encryption using AES128 and HMAC-SHA256
- Session key exchanged through basestation

Use Nabto's authorization framework where you maintain Access Control Lists on the device through the Nabto API to control which users can access the device.

Or simply use Nabto as a secure tunnel and use a custom, application level authorization scheme – such as RTSP basic auth towards your own access rules on the device.

BUSINESS MODEL

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- One-time fee is charged for the Base Station, depending on number of devices to handle.
- Small one-time fee is charged per device depending on volume.

Above fees include unlimited use of all client libraries and apps

Nabto provides optional hosting services – but basestation can be hosted by customer in own datacenter or at a VPS / cloud solution for full privacy and control

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