iANT
Applied NGN Technologies

VoIP Readiness Analysis

Is your company VoIP ready? Here are some options and recommendations following cancellation of ISDN services

## Why Do We Recommend the Analysis?

Modernizing a company's telephony infrastructure offers many advantages – such as cost savings and new features from Unified Communications (UC). The switch to VoIP is necessary once support for the existing tele-communications system and ISDN services are discontinued. Our VoIP Readiness Analysis provides an overview of your company's network characteristics, as well as it's suitability for VoIP. Many problems that occur relating to VoIP functionality lie in the IP network, making an analysis prior to migration vital to a company's communications. In a VoIP system, speech and signaling data for telephony are transmitted over the IP network in addition to the normal traffic. This leads to a considerable increase in traffic in general. The requirement for real-time capability, crucial to telecommunications, leads to further demands on the network. Should no measures for data prioritization be defined, or should these measures be insufficiently defined, your telecommunications will not be reliable.

Our Offer:

With our VoIP Readiness Analysis, we determine whether your IP network can guarantee reliable VoIP operation. We configure a test system for the analysis and design scenarios for conclusive measurements. These scenarios are customized for the specific use case, and encompass the expected number of calls, network architecture, number of company locations, etc. The test system simulates VoIP network traffic and measures data relevant to IP communication. From these values, QoS parameters critical for VoIP, such as packet loss, latency, and jitter, can be determined. The evaluation also considers the network's ability to provide services such as auto configuration of the VoIP telephones, power supply over PoE, etc. The system can be monitored remotely, should remote access be granted. Upon evaluating the recorded data, recommendations customized for your company's case are prepared. You'll receive a detailed report of the results of all measurement routes. From these, we determine which measures are necessary to ensure reliable IP communications – i.e. data prioritization through logical or physical separation, application of QoS parameters, and/or separation of networks, for example via VLANs.

Packetloss value
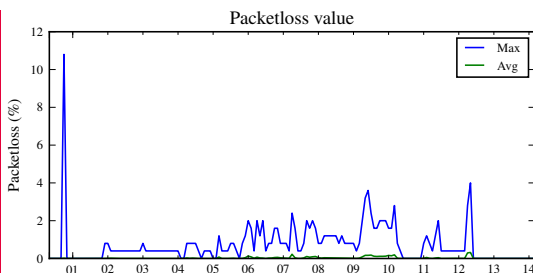
After the evaluation, you know the facts regarding your network. Charts like this illustrate the network characteristics regarding Quality of Service (QoS), and help the analysis for reliable VoIP operation stay conclusive while remaining uncluttered.
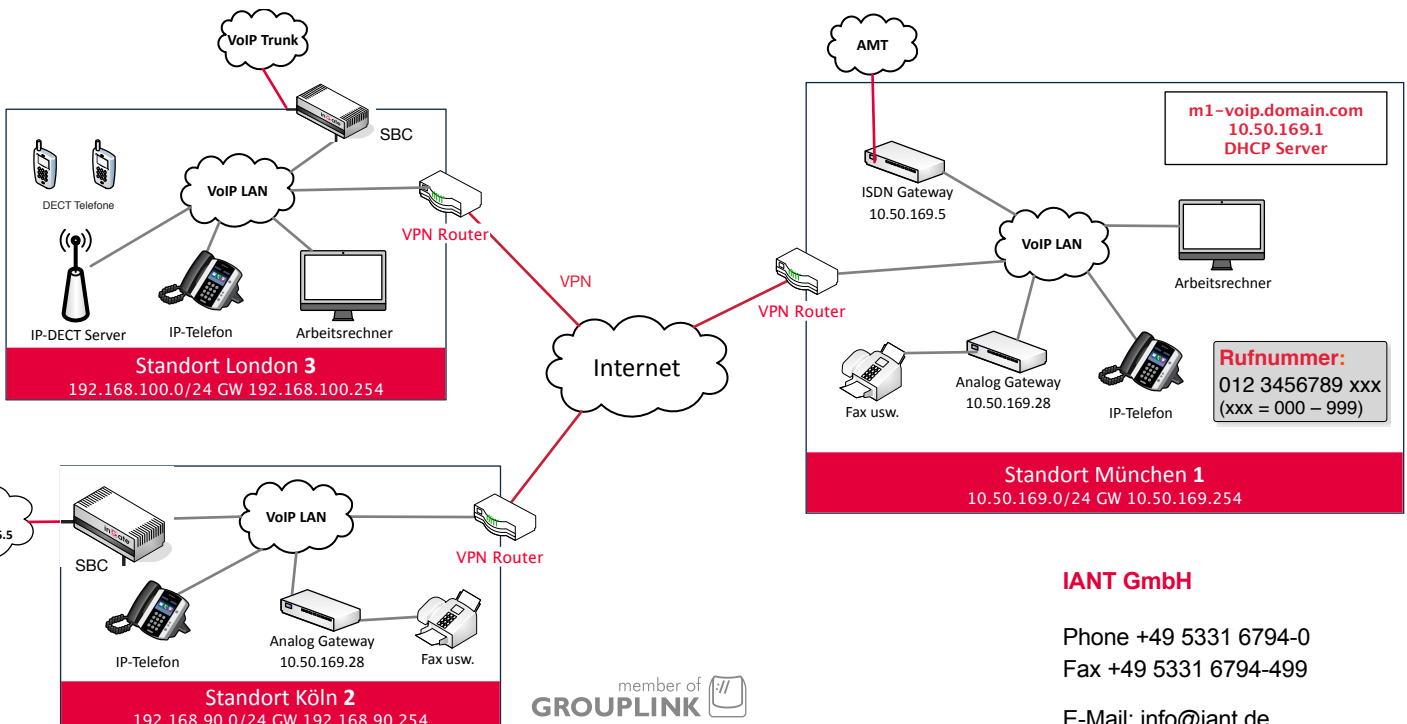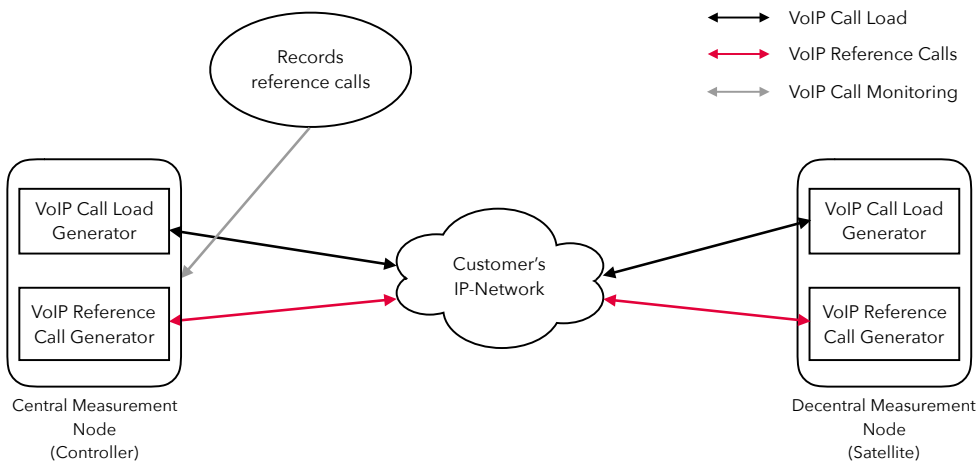

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member of **GROUPLINK**

- The customer is consulted on the expected number of calls, respective network architecture, as well as the integration of remote locations. The test system is then designed around these demands.

- IANT installs and activates the test system on-site

- The test generally runs for two weeks without interruption, while our engineers monitor the system remotely (if remote access is desired)

- Customers receive indications of concrete vulnerabilities, as well as suggestions for improvement upon evaluation of the recorded data.

Records reference calls

→ VoIP Call Load
→ VoIP Reference Calls
→ VoIP Call Monitoring

VoIP Call Load Generator

VoIP Reference Call Generator

Customer's IP-Network

VoIP Call Load Generator

VoIP Reference Call Generator

Central Measurement Node (Controller)

Decentral Measurement Node (Satellite)

The test system (left) is comprised of two components:

> The **controller** manages the measuring nodes, as well as the sequence of the test cases. ‚It also records data for the analysis.

> The **measuring nodes** execute the pre-defined test cases on various locations in the network.

I. Standard

> Development of an individual test scenario customized for the company's use case, as well as on-site activation

> 3 measuring nodes + 1 controller in LAN

> A written assessment with a description of the „as-is" state of the network and suggestions for improvement to guarantee reliable VoIP operation.

Special Offer:
3.500 € *

II. For Multiple Locations

> Everything included in the Standard VoIP Readiness Analysis

> 2 additional measuring nodes for the analysis

> The simulation is performed across multiple sites; measuring nodes are distributed over existing site locations and are placed on critical locations in the network

Special Offer:
4.000 € *

III. For Large Enterprises

> Everything included in the VoIP Readiness Analysis for multiple locations

> Up to 8 Measuring nodes for the simulation

> Final presentation with a following discussion of the results, as well as a personal consultation on guaranteeing reliable VoIP operation

Special Offer:
6.000 € *

* VAT and travel costs not included. This is a non-binding offer.