

Summary

The *N-Squared Specialized Resource Platform* is a Intelligent Network controlled voice interaction server. The N2 SRP provides a cost-effective solution for enabling INAP-controlled voice interaction over:

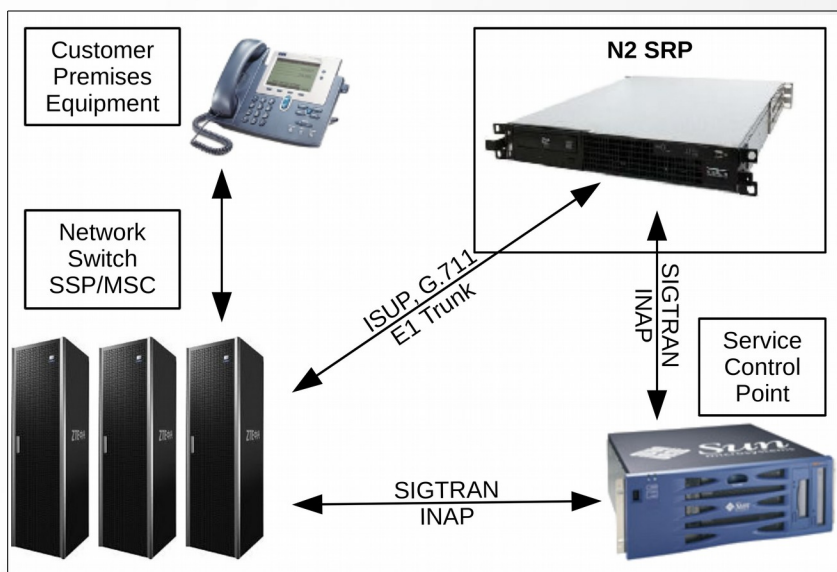
- Conventional ISUP (E1/T1) Trunks, *and/or*
- Next-Generation SIP/RTP Transport.

Built on Linux, the *N2 ISUP SRP* combines a robust, scalable architecture with modern management features and competitive cost per channel.

ISUP Voice Channels per Chassis
 16 x E1 (480 channels)/server, or
 16 x T1 (368 channels)/server
 Requires 1 x PCI Express per 8 E1/T1

ISUP Protocol Support

With standards-based support for ISUP, SS7 and INAP/CAMEL, the *N2 ISUP Specialized Resource Platform* is compatible with most INAP/CAMEL SSP/MSC switching platforms and INAP Service Control Points.



Key features include:

- **Standalone Announcements**
- **Constructed Announcements**
- **Cancel/End/Time-Out/Interrupt**
- **DTMF Digit Collection**
- **Variable Parts:**
 - **Natural Language Numbers**
 - **Single/Plural Differentiation**
 - **Multilingual Support**
- **Text-To-Speech**

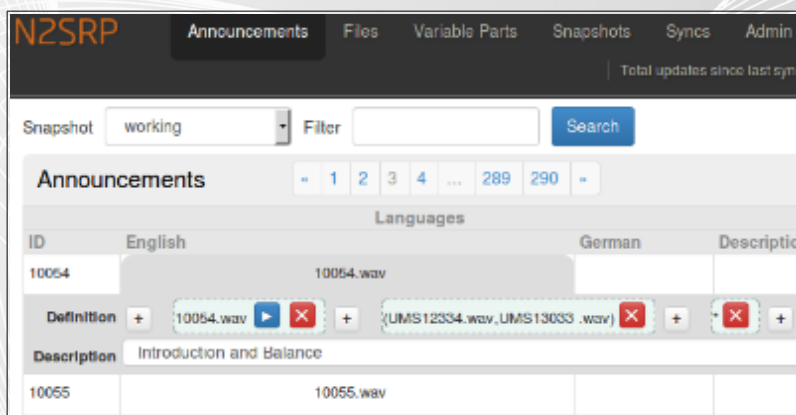
Text-To-Speech

The *N-Squared ISUP SRP* can perform on-demand Text-To-Speech conversion. An embeddable third-party library is used to provide this functionality (such as the Cepstral third-party voice suite). Please contact us for more information on supported voices and languages in the optional Text-To-Speech feature pack.

Graphical Provisioning Interface

The *N2 ISUP SRP* offers exceptional ease-of-use via a market-leading web-based provisioning interface. The fine-grained security control allows Telcos to grant secure self-management of announcements to resellers and virtual network operators.

- Secure Management Interface
- User-Based Resource Access
- Automatic Audio Format Conversion
- In-Browser Audio Playback
- Per-File Version Control & Backup
- Global Snapshot & Restore
- Integrated Node Synchronisation



Platform Monitoring & Control

The *N2 ISUP SRP* service layer is designed for easy management, and includes a web-based point-and-click interface for real-time interaction with run-time service-layer components.

N2SVCD - Status				
#	App Name	Resources	Statistics	Configurati
Now: 2014-10-08 17:59:44.259114				
0	Manage	1=# Active Instances 0=# Queued Timeouts	1=# Instances Started	HTTP Host=0.0.0.0 HTTP Port=8088
1	SIGTRAN	1=# Connections 1=# Routes 0=# Handlers 0=# Active_TIDs 0=# Posthumous_TIDs 0=# Open_Correlations	0=# TCAP Sent 0=# TCAP Sent BEGIN 0=# TCAP Sent CONTINUE 0=# TCAP Sent END 0=# TCAP Sent ABORT 0=# TCAP Rcvd 0=# TCAP Rcvd BEGIN 0=# TCAP Rcvd CONTINUE 0=# TCAP Rcvd END 0=# TCAP Rcvd ABORT	Own SSN = 10 Own Point Code = 4114 Own Global Title=
2	SRP	2=# Languages 1=# SCP_Addresses 2=# RTP_Workers 1=# SIP_Connections 0=# Active_SIP_Instances 0=# Transaction_IDs 0=# Queued Timeouts		SIP Protocol =udp SIP Host =0.0.0.0 SIP Port =5060 Correlation ID Len =3 SCP ID Len =1 RTP Local IP =10.42.2.1 RTP Start Port =6970 INAP Language Extension ID=400 Default Language =English Scripter Audio Dir =/home/jco Default SIGTRAN App =SIGTRAN

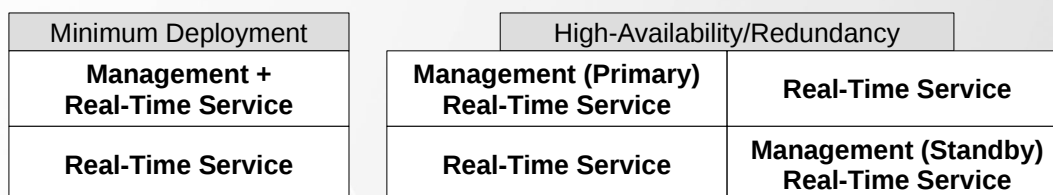
Via any modern web-browser, system administrators may:

- View running configuration.
- Track service statistics.
- Interrogate in-progress calls.
- Monitor resource usage.
- View system alarms.

Alarms are also directed off-platform via SNMP.

Scalability & Redundancy

The modular architecture of the *N2 ISUP SRP* allows each site installation to be configured to meet the relevant performance and geographic distribution requirements for the specific deployment model, e.g.:



Feature Packs

The *N-Squared ISUP Specialized Resource Platform* contains base and extension features:

Feature Packs	
Base Features <ul style="list-style-type: none"> • ISUP Voice Channels with INAP Control • Web-Based Announcement Management • Web-Based Platform Monitoring & Control • English Language Variable Parts 	Language Packs <ul style="list-style-type: none"> • Additional Language Packs are available on-request. Text-to-Speech <ul style="list-style-type: none"> • On-the-Fly + Cached Speech Encoding • Please Enquire for Voice and Languages

Support & Maintenance

Ongoing 24/7 platform support and maintenance contracts are offered.

About N-Squared

N-Squared is an Oracle Gold Partner based in New Zealand. We are specialist providers of products and services for the Telecommunications domain.

Key Protocol Specifications

ETSI INAP (ETS 300 374-1)
 CAMEL Phase 2+ (ETSI TS 101 046)
 SIGTRAN (RFC 2960, 4666, 3868)
 ISUP (ITU-T Q.76x)
 ITU G.711

Note: Protocols are supported to the extent necessary for advertised features.

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