



Number Translation Service

Number Translation Service (NTS) is dynamic and intelligent. It routes calls, initially destined for non-geographic numbers, to geographic or mobile numbers.

NTS is used by companies and organizations to provide a single access number for customers to call regardless of their geographic location.

Number Translation Services enable subscribers to have virtual local presence. Customers dialling local, non-geographic numbers are then routed directly to the site favoured by the call recipient. Calls can be answered everywhere (nationally or internationally). Several fee-based categories are standard features of the Artilium NTS solution. These include Freephone, Full Rate, Shared Cost or Premium Rate numbers.

ARTA Number Translation Services

The ARTA Service Delivery Platform makes two kinds of number translation services available:

- Unconditional - every call to a specific access number is routed in the same way.
- Conditional - the call to a specific number is routed based on a corresponding time/date profile.

Features

Caller screening

Authentication by CLI or PIN code, black/white listing, caller groups

Caller limitations

Numbers of simultaneous calls per client/customer

Number exceeded

Disconnect, announcement

Restrictions

Access number screening (authentication/authorization); barring of access numbers, simultaneous call limitation; general limitation of numbers of calls per access number.

General announcements for all callers and access numbers

Number-specific announcement: for specific access numbers or for a group of access numbers.

Routing types

Via Routing Tables (default routing):

- Number translation
- NTS Profile String (directly linked to access number)

Via administration tools per Service Access Number (SAN):

- Routing Profile: destination number or NTS Profile
- Caller
- Groups: different
- caller groups possible
- Allowed or blocked numbers/prefixes
- Time Profiles
- Different Profiles
- Calendar/date/time (with built-in override)

Routing profiles

- Dual Tone Multi Frequency (DTMF)
 - dependent routing via IVR
- Balanced (Web-based) routing with a distribution percentage
- Cascade routing:
 - Re-routing after a certain time
 - Cause-based re-routing (on Busy, on No Answer, Unrestricted etc)
 - Unlimited back-up numbers (or even balanced)
 - Limitation of call duration: disconnect call or give announcement

Intelligent Call queuing mechanism

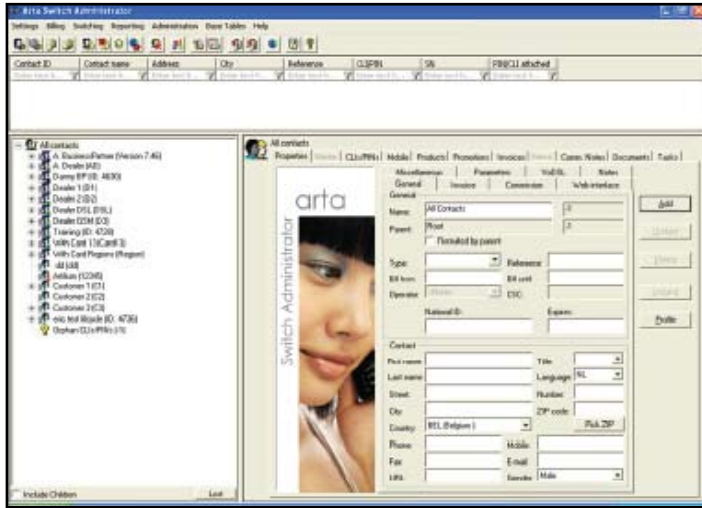
Number exceeded: announcement, queuing, possibility to leave a message, disconnect

Reporting

The reporting module offers a variety of customizable standard reports. On-line statistics and data are available and can be exported as ASCII files for further statistical evaluation.

Remote configuration

Web pages allow customers to configure their own service access number(s).

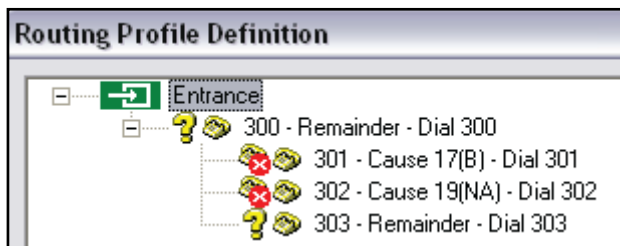


Service Management Point

Customer care is performed via the ARTA NTS management tool and is accessed via the Service Management Point. Service providers or operators can provision, manage and maintain their NTS subscribers in a flexible way.

The ARTA NTS management tool is a user-friendly interface containing different tabs to provision and set parameters for:

- NTS calendar
- Caller groups
- Routing profiles
- Messages
- Queues linked to the time profiles



Depending upon which type of NTS (unconditional or conditional) is required, specified routing schemes will be implemented. These schemes, the so-called 'routing strings' are built up by introducing the relevant parameters for conditional or unconditional routing.

Example of a routing string

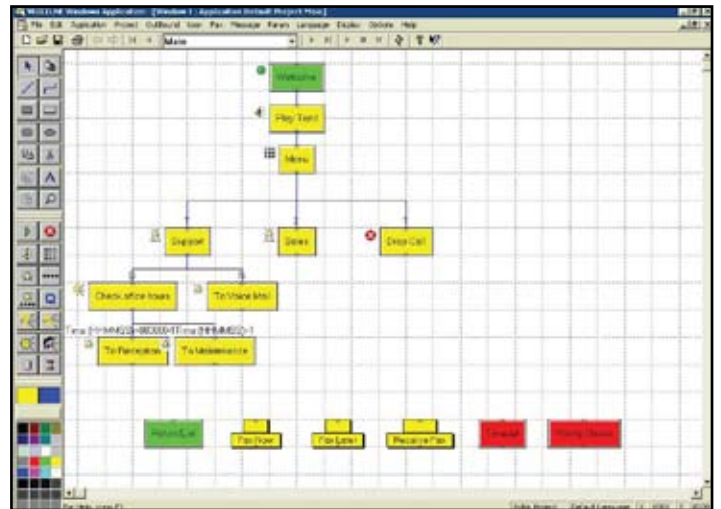
A profile routes all the calls to extension 300. On busy (B), the call will be routed to extension 301. If the connection cannot be established because the person doesn't answer the phone (NA) within 5 rings (@5), the system will forward the call to extension 302. If this also fails (+), the caller will be directed to extension 303.

If the connection to 301, 302, or 303 cannot be established, the caller is disconnected and the disconnect cause is received from the called party. If the initial call to extension 300 can be established, the maximum call duration allowed is 60 seconds (#60). Example: 300@5#60(<B: 301+NA: 302+303>)

Service Creation Environment

The ARTA Service Creation Environment is part of the ARTA NTS application and allows service providers or operators to develop and adapt interactive scenarios to the needs of customers.

Language selection, alert messages, announcements during and/or at the end of a call, DTMF - or specific data-related routings are only a few of the advantages offered by this flexible graphical tool.



Artium is the leading developer of Microsoft-based carrier-grade software for mobile networks.

Artium's ARTA Mobile Services Platform is an open, modular, highly extensible Next Generation Service Delivery Platform built on Service Oriented Architecture principles and designed to enable rapid creation of new mobile applications, packaged as services, throughout their lifecycle.

ARTA activates the coming wave of third-party application development and innovation. By providing open and secure access to mobile network functionality and autonomous software processes, ARTA enables infinite possibilities for intelligent mashups which combine network capabilities of presence, mobility, location and telephony; with Web services including advertising, social networking and search.



Based in Belgium with offices in the United Kingdom, Artium is a publicly listed company on the London Stock Exchange (LSE/AIM: ARTA). The company was founded in 1995 and has completed more than 40 installations serving tens of millions of end-users in 11 countries.