



T3 Telecom Software, Inc.

Powering enterprise communications through integrated telephony solutions.

T3main Architecture

T3main is an innovative and comprehensive telephony solution harnessing the best technologies in the telecommunications industry. A unique single-platform approach provides flexible voice and data capabilities to support a variety of location sizes, regional requirements and technology infrastructures.

Three-Tiered Architecture

The T3main server is a multi-threaded software application implemented in three tiers:

Tier 1

The Core Tier manages all processes and devices in T3main.

Telephony engine – a state machine which handles all telephony and fax related issues.

Script engine – determines the flow of the call including playing prompts, taking messages, waiting for entries, and retrieving information from a database. The script engine is customizable on-the-fly and the entire flow of an application, for example voice mail, can be changed to emulate a specific flow.

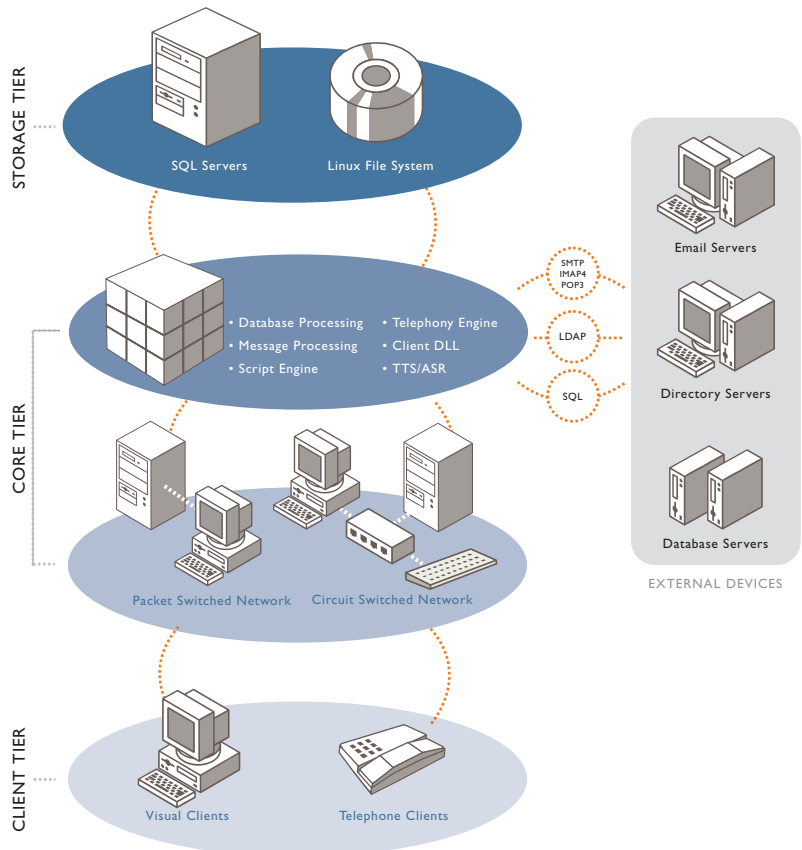
Database access – SQL/ODBC access to the database engine.

Communication Dynamic Link Library (DLL) – a dynamic link library allows remote clients to connect to T3main for administration and client functionality (call control, mailbox administration).

IP protocols – POP3, IMAP4, LDAP are implemented to allow any email client to retrieve messages from T3main. With LDAP, T3main can become an extension of a directory services environment where users are dynamically retrieved from the directory.

Text-To-Speech (plug-in module) – T3main uses ScanSoft® RealSpeak™ to convert email messages into natural sounding synthesized speech.

Speech Recognition (plug-in module) – T3main utilizes Natural Speech Communication's (NSC) technology to enable highly reliable speech recognition from multiple



devices including telephones, cell phones and speaker phones. The NSC speech board resides in the same server as the rest of the platform and does not require additional CPU resources.

Tier 2

The Storage Tier uses the Linux file system combined with a SQL database to store messages, system prompts, greetings and application-specific information (such as caller ID routing tables).

Tier 3

The Client Tier includes the interfaces that enable user access to T3main, such as DTMF and speech recognition, web-based administration and email client access to messaging.



Performance and Reliability

Security

Using specific IP ports T3main can be configured to run behind an internal firewall. It uses all standard Linux security mechanisms as well as internal security and licensing mechanisms.

Interoperability

Using standard industry protocols for both telephony as well as email/Internet communication, T3main provides maximum flexibility to connect to any Key System, PBX, central office switch, standard email server or database engine.

Reliability

User data is stored on industry-standard email and database servers allowing service providers to choose their redundancy configuration to meet required service levels.

Scalability

As your organization and call volume expands, so does T3main. T3main manages 2 to 120 connections per server, and up to 10 million users / 999 nodes while connecting to any database engine on the LAN/WAN to allow for distribution of the load among as many servers as required. T3main can be implemented as a single machine / multi-server where all servers reside on the same physical machine or, for additional processing power, in a fully distributed mode where each server resides on a different machine. The TTS/ASR, database, and telephony servers can all reside in different servers.

Hardware

T3main uses Aculab® and Dialogic® boards, runs on Intel® based machines with the Linux operating system, and can be implemented as an “in-skin” solution (a card that connects directly to the back plane of a PBX). This hardware configuration provides the following benefits:

- Customer-approved server vendors may be used (Dell®, HP®, IBM®, etc.)
- High availability of spare parts
- Worldwide homologation and localization
- Open standards for add-ons (storage, redundancy, monitoring)

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