

## Overview

The convergence of TDM, radio and IP communications is fundamentally changing the telecommunications industry. There are a wide variety of applications demanding reliable interoperability. The REDCOM systems are designed to interconnect with analog lines, VoIP, satellite, microwave, and E1. REDCOM's TRANSip® architecture is based on four functional core elements (Call Management, Media Gateway, Media Gateway Control and Legacy Support) that converge VoIP Call Management and TDM networks. TRANSip binds these functions in a single integrated system for seamless interoperability.

REDCOM's HDX switching system with TRANSip addresses mission-critical needs with an integrated, drop-in Voice over IP (VoIP) communications solution. These next-generation solutions, based on the industry-standard Session Initiation Protocol (SIP), fully integrate VoIP and TDM in a single Next Generation Network platform. REDCOM's Radio Interface allows any phone in the REDCOM system to dial out to a remote radio, or allows a radio to dial directly into the system and ring a phone, make an outside call, or call another remote radio system.

REDCOM's SLICE® 2100™ switching system with TRANSip brings VoIP connectivity to a wide range of applications. Functioning as both a softswitch and gateway, SLICE 2100's integrated SIP Call Controller and Media Gateway offer a simple-to-install, single-box solution contained in a 1U platform. With SLICE 2100 there are no expensive server boxes, no separate gateway boxes, and no separate VoIP software to load and configure. SLICE 2100 allows you to get up to 1,000 IP subscribers in a single unit.

With the REDCOM telecommunications solutions, we couple enhanced VoIP capabilities with existing TDM networks and a simple and reliable connection between REDCOM switching systems and radio systems to meet your telecommunications requirements.

## REDCOM's HDX System

REDCOM's TRANSip technology suite allows IP and TDM networks to interoperate, as well radios and wireless communications, enabling a seamless, incremental transition to VoIP networks. Designed for the industry-standard IMS architecture, REDCOM's HDX softswitch allows users to future proof their networks to interoperate today and tomorrow with a wide range of protocols and interfaces, positioning them for long-term evolution. REDCOM builds the interfaces and supports the protocols that enable secure and interoperable communications. REDCOM solutions connect multi-technology networks delivering maximum interoperability, including SIP, V.150.1, T.38, IPv4, IPv6, SS7/C7, GR-303, V5.2, CAS, DTMF, MFC/R2, MF/R1, FGC, FGD, CLASS, ISDN PRI/BRI and Euro ISDN.

## VoIP-TDM Interoperability

With REDCOM's HDX, customers can continue to interoperate with their existing TDM networks while leveraging next-generation VoIP applications. This functionality provides REDCOM's customers with the flexibility to smoothly and incrementally migrate to IP in a cost-effective manner when it makes sense for them, while still being able to deploy advanced communications technologies without compromising service quality and reliability.



## Talk to the communications experts at REDCOM

For more information about how REDCOM can create a reliable solution for you, call us today at **+1.585.924.6500**, or e-mail [sales@redcom.com](mailto:sales@redcom.com)

One Redcom Center, Victor, NY 14564-0995, U.S.A. [www.redcom.com](http://www.redcom.com)

## Radio Interface for HDX System: VOX, COR & PTT Calling

Radio users gain all the same benefits of a REDCOM system normally available to station users. This feature allows any phone in the REDCOM system to dial out to a remote radio, or allows a radio to dial directly into the system and ring a phone, make an outside call, or call another remote radio system. The REDCOM Radio Interface contains two circuits and supports full two-way calling with Push to Talk (PTT), Voice Operated Transmission (VOX) or Carrier Operated Relay (COR). Each circuit can interface with an HF (pulse) or UHF/VHF (DTMF) radio for simplex or duplex operation. The Radio Interface allows direct, back-to-back radio patches with both VOX and COR.

## Benefits of the REDCOM HDX System:

- ♦ Integrated Call Controller & Media Gateway
- ♦ Integrated VoIP, TDM, and Radio Interface, in a single platform
- ♦ SIP-based VoIP capabilities
  - ♦ Scalable from 100 to 32,000 SIP subscribers
  - ♦ SIP Trunking
- ♦ Extensive Conferencing (TDM, VoIP and Radio)
- ♦ Interoperable with HF (pulse) or UHF/VHF (DTMF) radio for simplex or duplex operation
- ♦ Multiple CODEC Standards for Compression
- ♦ Modem over IP V.150.1 & Fax over IP T.38
- ♦ Scalable Operator Platform (Graphical User Interface)

## REDCOM's SLICE 2100 System

SLICE 2100 with TRANSip is a Commercial-Off-The-Shelf (COTS) integrated communications platform that provides a flexible, reliable VoIP solution. SLICE 2100 brings VoIP connectivity to a wide range of applications, including public and private networks, emergency response communications, and enterprise markets.



## Benefits of the REDCOM SLICE 2100 System:

- ♦ SIP-based VoIP capabilities
  - ♦ Up to 1,000 SIP subscribers
  - ♦ SIP Trunking
- ♦ Integrated Call Controller & Media Gateway
- ♦ Adaptable to multiple T1/E1 Trunks and Analog Trunks
- ♦ Analog Lines and ISDN-BRI Lines
- ♦ Extensive Conferencing (TDM, VoIP and Radio)
- ♦ Radio Circuits and Magneto Circuits Interoperability
- ♦ Multiple CODEC Standards for Compression
- ♦ Modem over IP V.150.1 & Fax over IP T.38

## Scalable Operator Platform

To provide customers with a complete, user-friendly overview of network services, REDCOM offers the Scalable Operator Platform—a GUI software package call management system that delivers extensive conferencing, call control and handling capabilities. Working with any standard PC, the system creates a powerful attendant console that allows operators to place, accept, and intercept calls. Operators can also control held calls, active conferences, directory assistance requests, and call queue management.

## Why REDCOM?

Unlike other major telecommunications system manufacturers, we support all our released software versions. REDCOM's systems are proven products that continue to grow and advance with the latest technology. We do not impose mandatory upgrades. Based on the patented MSU architecture, our systems are designed to operate in adverse environments with no scheduled maintenance. REDCOM's systems provide a current platform from which you can plan growth, technical advancement, and implementation of Next Generation features and interfaces. All this is available while retaining your investment, and on a proven, reliable platform. REDCOM's systems are the logical solution for your future network requirements.

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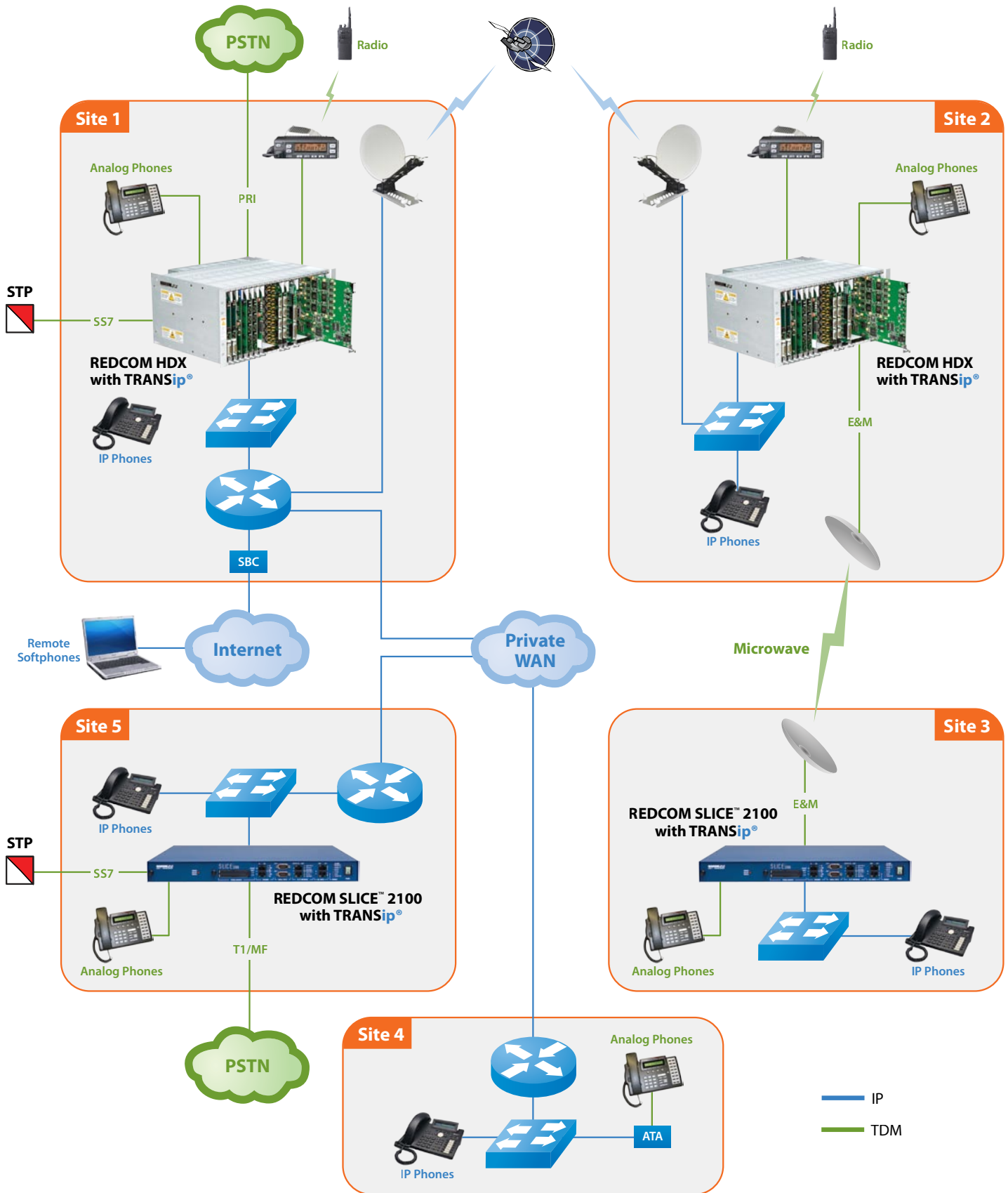
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# Multi-Site Hybrid Intelligent Telecom System



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