

DELIVERY

TUESDAY 21 JULY ■ 2:00PM – CONFERENCE ROOM 2

Title: **Meshed Broadcast Headends Deliver Convergence**

Presenter: **Kenelm Deen**
Senior System Architect
TANDBERG Television, Part of the Ericsson Group

Abstract

Broadcast Headends are evolving. Traditionally static in nature, based around fixed service delivered over single networks, these now constrain the broadcasters ability to react to the changing environment. Broadcasters are increasingly looking for a flexible solution which can adapt to their changing business needs. New services such as High Definition and PVR enabled STB's are seen as essential in reducing subscriber churn. Headends have become increasingly complex to serve these growing demands, increasing operational costs and complexity in managing daily operations and adding new services.

Enter the Meshed Broadcast Headend enabling flexible resource configuration allowing organic growth, reduced operational complexity enabling rapid reconfiguration, increased resource availability and redundancy levels. Meshed networks are in nature non linear and independent of the delivery network enabling delivery over hybrid networks. Meshed networks offer flexibility in growth and simplicity in resource allocation, and ideally allow future technology trends to be adopted allowing single resource blocks to be updated in isolation.

This paper examines a Meshed Headend detailing the benefits in adopting a non chained approach to resources allocation, where resources are grouped by function and independent of chain dependency/linear relationships. We will show how a single Headend can deliver content over multiple networks providing a true converged solution to end subscribers and discuss the challenges faced in deployment.

Bio

Kenelm Deen is a Senior System Architect within the Business Development Group, responsible for defining and validating architectures for Satellite and Terrestrial Direct-to-Home network, Contribution and Distribution networks and Mobile TV for customer specific projects and future product development. He has been with TANDBERG Television for over 10 years, having started his career with NTL and NDS.

Kenelm's key areas of expertise extend across Headend Architectures, Conditional Access, IP Networks and Digital Rights Management.

Kenelm has a MEng in Electronics with Computing and Business from Kingston University in the UK.