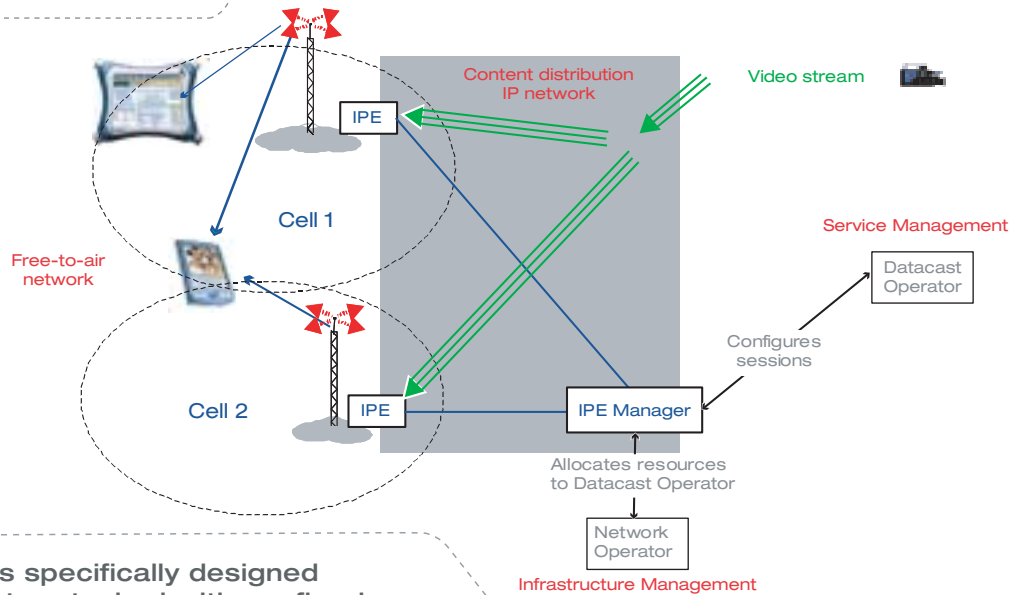


DVB-H IPE Manager

- + TV to mobile system manager
- + Strict service model enforcement
- + Scalable DVB-H infrastructure



The IPE Manager is specifically designed for Network Operators tasked with configuring and controlling the DVB-H network infrastructure, as well as enabling Datacast Operators to deliver their service by defining their content transmission sessions.

DVB-H IPE Manager

Description

Television to the mobile using DVB-H networks is set to become a major revenue generator. However its success is reliant on its scalability and in particular the ability to efficiently control and manage several dozen or even hundreds of IP Encapsulators distributed throughout the DVB-H network. The IPE Manager responds to this need complementing DVB-H standard compliant IPEs with a complete end-to-end management and administration system.

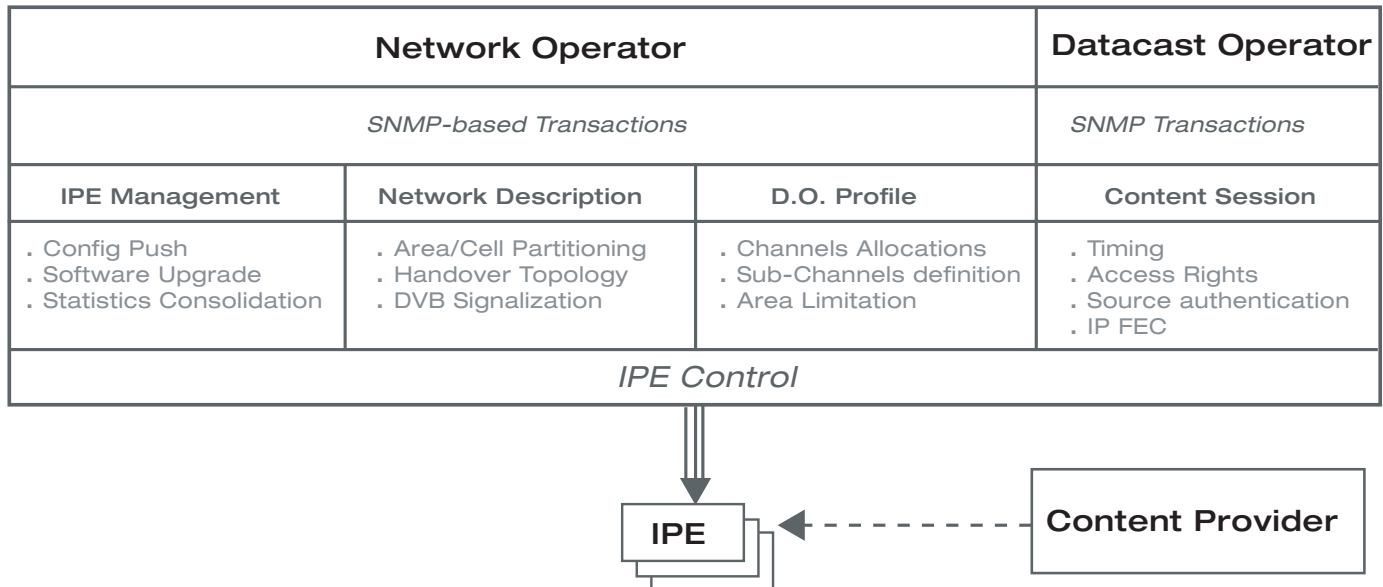
The IPE Manager enables the complete control of the IP encapsulation points distributed throughout the free-to-air network. It enables the overall coherence of the network for the DVB-H emission, bandwidth management and the sharing of infrastructure. The Network Operator controls its infrastructure via the IPE Manager, defining a specific environment for each Datacast Operator which will in turn interact with multiple content providers. Through the use of the IPE Manager the definition of a content session is realised in one operation with the administration tool updating the multiple parameters of the deployed IPEs throughout the network.

In addition to the hierarchical management of the QoS, the IPE Manager is core to key DVB-H network functionality such as the handover between different cells as well as the global and local description of the transmission network enabling mobile reception devices to auto configure in order to tune into the relevant channel.

The IPE Manager also ensures that encryption keys to secure IP content are distributed to the IPEs and that traffic is dynamically routed to the DVB-H free-to-air cell during time segments set by the Datacast Operator.

Within such a complex environment it is vital that all the administration parameters for all the IPEs in the network are coherent and synchronised. This is essential for a functional and reliable network meeting the multiple needs of the various players. Indispensable for a fully operational network, the IPE Manager is the essential management tool for a DVB-H network bringing it the intelligence and flexibility needed for the delivery of a cutting edge service.

DVB-H IPE Manager



02 Features / Benefits

+DVB-H Infrastructure control

- . Free-to-air network model based on cells and areas to support local content
- . Homogeneous global free-to-air network definition with local PSI/SI table generation
- . Global and local session definition with adapted PSI/SI information

+Strict global service model

- . Hierarchical value-chain model tailored for Network Operator - Datacast Operators - Content Provider
- . Delivers strong mutualization and high scalability of the global infrastructure

+Specific IP traffic control

- . Global phase shift within time slicing to deliver seamless hand over
- . Predicable content delivery behaviour, including multicast transit delay processing and IP FEC
- . Strict content diffusion control based on time slot session and originator authentication

+IPE Network Management

- . IPE software upgrade synchronization to guarantee uniform IP/DVB-H processing
- . Central configuration management to simplify DVB-H administration and session setup
- . Global IPE statistics aggregation into a central location

+Secured Management

- . Encrypted SNMP-based management with limited view per Datacast Operator
- . Multicast IPsec-based encrypted Manager to IPE dialog, including reliable configuration push
- . Strong IPE authentication based on digital certificates