ENENSYS MWC2015 Press Release

ENENSYS HIGHLIGHTS MOBISTREAM – eMBMS GATEWAY AND SERVICE CENTER FOR LTE BROADCAST COMMERCIAL DEPLOYMENT

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ENENSYS, a leading designer and manufacturer of broadcast transmission technologies for Digital TV and Telecom industries, is demonstrating **Mobistream**, ENENSYS field-proven eMBMS-Gateway and BM-SC product, currently deployed in the first US commercial launch.

LTE operators and solution integrators require three new components to deploy LTE Broadcast on a 4G network, namely the Multi-Cell Coordination Entity (MCE), eMBMS Gateway and Broadcast Multicast Service Center (BM-SC). While the MCE is usually integrated into the eNodeB, the eMBMS Gateway and BM-SC are new functional elements that must be added to the EPC.

One of the new evolutions in LTE Broadcast is the use of a SFN network to transmit the broadcast content. The UserPlane of these functional elements require special care to be compliant with the MBSFN broadcast mode: when LTE Broadcast is activated over an MBSFN Area (Multicast-Broadcast Single Frequency Network), all eNodeBs of this area must be tightly synchronized to respect the stringent SFN requirements. Such robust synchronization is essential to ensure that the content transmitted over several eNodeBs arrives on the UE within the SFN guard interval span to limit Inter-Symbol-Interference.

However, while SFN technology is well deployed in Broadcast TV industry, it is a new feature in LTE requiring Telecom operators to tightly control time & frequency for a set of eNodeBs that broadcast the same content over the air.

ENENSYS, with its long expertise in SFN for Broadcast TV, is ideally positioned to propose to Telecom operators and system integrators a robust, field-proven implementation of the SYNC insertion module to ensure all eNodeBs optimally transmit the bearer content over its MBSFN Service Area.

ENENSYS Mobistream eMBMS Gateway and BM-SC is an all-in-one solution that integrates the necessary UserPlane functionality to achieve LTE Broadcast. It receives HTTP, RTP, and FLUTE encapsulated multimedia data, creates eMBMS bearers and adds SYNC PDUs to each bearer, before sending the content over the M1 interface to the eNodeBs. It supports both IPv4 and IPv6 protocols. Besides, as a high profile network component, Mobistream also adds port and device redundancy, reducing the risk and impact of a hardware failure while "on-air".

Each Mobistream device manages up to 200 bearers in parallel, and operators may seamlessly add devices to increase the overall capacity to reach their required peak.

Jean-Marc GUYOT, Vice President of Business Unit Telecom, says, "Our Mobistream enables Network operators to deploy a robust, resilient, field-proven and scalable solution on their 4G networks. The scalability and long proven SFN SYNC management of our solution allows for rapid and secure deployment – essential in today's first commercial deployments where business models, technology proofing and capacity requirements are evolving quickly."

The **Mobistream** is currently deployed and live in a LTE Broadcast commercial deployment in the Unites States.

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