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Inter-base station communication X2



Overview

What is X2 interface?

In summary, the X2 interface is a critical element in LTE and 5G networks that enables direct communication and coordination between neighboring base stations. It facilitates smooth inter-cell handovers, load balancing, interference coordination, and efficient resource management.

Does X2 need a transport network?

In traditional setups, the X2 interface relies on the transport network to connect Base Stations. However, in configurations where Base Stations, such as eNode B and gNode B, are co-located within a single cabinet (typically in NSA architectures), the X2 interface may be internal, obviating the need for an external transport network.

What is x2 inter-cell handover?

Inter-Cell Handovers: One of the primary purposes of the X2 interface is to support inter-cell handovers. When a user equipment (UE) moves from one cell to another, the current serving base station and the target base station need to exchange information to initiate and execute the handover process.

What is X2AP in LTE?

X2AP defines the message formats, procedures, and protocols required for smooth communication over the X2 interface. In summary, the X2 interface serves as a critical link between neighboring eNodeBs in an LTE network.

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It employs the X2 interface, which directly connects neighboring eNodeBs (the LTE base

stations). One of the key advantages of the X2 handover is its efficiency. Since it ...

X2 interfaces can run on pre-existing physical connections and various topologies. Therefore, X2-level communications will be affected by a certain delay and/or bandwidth ...

The X2 interface is a critical component of the Long-Term Evolution (LTE) cellular network architecture. Let's dive into the technical details: Neighbor eNodeB Coordination: The X2 ...

The X2 interface is an essential component in 5G technology that facilitates communication and coordination between different base stations, also known as eNodeBs ...

TL;DR: In this article, a method, a system and a base station for X2 interface-based base station switching is described, where the first base station conducts load balance information ...

The X2 interface in LTE (Long-Term Evolution) plays a critical role in facilitating communication between neighboring eNBs (evolved NodeB, also known as base stations or ...

A Method of Inter-Base Station Synchronization for Cooperative Integrated Sensing and Communications in Indoor 2.2 GHz Scenarios , SpringerLink

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