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1 Syllabus

This online course will provide the participant an opportunity to learn Axyom Security HeNB-GW. This course is designed with an emphasis on verifying configurations, diagnostics and troubleshooting.

1.1 Audience

Who should participate?

This course is most appropriate for technical professionals who are not typically implementing configurations but rather are in support of the Axyom HeNB-GW such as NOC and support engineers who need to understand how to verify, diagnose and troubleshoot the Axyom HeNB-GW after production deployments.

1.2 Topics

Given this written guide and the instructor’s presentation, at the end of this course you will be able to:

- List the key services the HeNB-GW provides in the 4G LTE network
- Match each HeNB-GW feature to its function
- Discuss the major features of the Axyom HeNB-GW to include:
  - Relaying UE-associated S1 Application Part (S1AP) messages between the MME serving the UE and the HeNB serving the UE.
  - Terminating non-UE associated S1AP procedures towards the HeNB and towards the MME.
  - Relaying S1-U interface messages between the HeNB and the SeGW.
  - Supporting Tracking Area Code (TAC) and PLMN IDs used by the HeNB.
  - Representing all its attached HeNBs as a single eNB in the RAN network while interacting with other macro eNBs. This behavior allows support for X2 functionality on the HeNB-GW.
  - Optionally performing paging optimization on the occasion that the Allowed Closed Subscriber Group (CSG) List of the paged UE is included in the PAGING message.
- List the events that the HeNB-GW logs
- Identify the statistics the HeNB-GW collects
- State where the HeNB-GW keeps its Key Performance Indicator (KPI) statistics