

2. Logical Architecture

This section provides an overview of the logical architecture of an electronic health record (EHR) which uses CDS.

In particular, it focuses on the logical architecture of knowledge-based CDSSs,^[1] which use pre-loaded CDS artifacts (such as rules and guidelines) that closely match a human's natural reasoning process. Non-knowledge-based CDSSs, which use artificial intelligence (AI) or machine learning to acquire knowledge over time, are outside the scope of this guide.

The logical architecture of knowledge-based CDSSs are explored in the following subsections:

- [2.1. EHR System Architecture](#)
- [2.2. CDS System Architecture](#)

^[1] https://en.wikipedia.org/wiki/Clinical_decision_support_system#Knowledge-based_CDSS