Here is a list of all the key features of Radius:

**Client/Server Model**
- NAS works as a client for the Radius server.
- Radius server is responsible for getting user connection requests, authenticating the user, and then returning all the configuration information necessary for the client to deliver service to the user.
- A Radius server can act as a proxy client to other Radius servers.

**Network Security**
- Transactions between a client and a server are authenticated through the use of a shared key. This key is never sent over the network.
- Password is encrypted before sending it over the network.

**Flexible Authentication Mechanisms**
Radius supports the following protocols for authentication purpose:
- Point-to-Point Protocol - PPP
- Password Authentication Protocol - PAP
- Challenge Handshake Authentication Protocol - CHAP
- Simple UNIX Login

**Extensible Protocol**
Radius is extensible; most vendors of Radius hardware and software implement their own dialects.
Stateless protocol, using UDP, runs at port 1812.