Feature	Description
Multipoint-to-point communication	Each node forwards packet to it's preferred parent discovered through DIO messages
Storing mode	Each node stores routing data learned from DAO messages of it's sub-DODAG
Non-storing mode	Only root/sink performs routing based on data from DAO messages, other nodes don't store routing information
Point-to-multipoint communication	Sink communicating with any node based on routing data learned from DAO messages
Point-to-point communication	Nodes communicating with each other using common ancestor (root in non-storing mode)
DODAG Information Solicitation (DIS)	Node uses DIS to probe its neighborhood for nearby DODAGs
Multiple DODAGs	- Single DODAG with single root - Multiple uncoordinated DODAGs with independent roots - Single DODAG with a virtual root that coordinates LLN sinks (with the same id) over a backbone network
Multiple RPL instances	Each RPL instance may have a different objective function
Mobility	- Inside a DODAG - Between different DODAGs - Sub-DODAG 'poisoning' on departure
Leaf mode	If node doesn't support RPL policy or objective function, it may join as a leaf node and will not broadcast DIOs
Security	AES-based secure control messages and authentication