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Internet of Things: Mesh Networking

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Link Reversal for DAG maintenance Example



Network Partition

- · If network is partitioned, link reversals continue indefinitely.
- . In the partition disconnected from destination D, link reversals continue, until the partitions merge.
- · Need a mechanism to minimize this wasteful activity









Temporally-Ordered Routing Protocol			Temporally-Ordered Routing Protoc	col	
TORA Network Partition Example			TORA: Summary		
(A C		 An on-dem; Uses 1-hop DSR and T Performanc 	and DAG creation for each destinat broadcasts instead of Flooding. 'ORA outperform in real-world netw re degrades in mobile networks.	tion node. vorks.
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Routing Protocol for Low Power and Lossy Networks					
Routing Protocol for Low Power and L	Lossy Networks		Routing Protocol for Low Power an	nd Lossy Networks	
Routing Protocol for Low Power and I Systematic exami	nation of research result	S	Routing Protocol for Low Power an Routing Over Lo	^{nd Lossy Networks} ow power and Lossy networ	ks (ROLL)
Buening Protect for Low Power and I Systematic exami- • Many interess • New prot • Variation • Compara • How do we ss • Internet 1 • Internet 1 • Internet 1 • Gran • Low • Can • Not	ting research initiatives on routi cools introducing novel approache s to improve/extend existing appro- tive evaluations. tandardize ? Engineering Task Force Working G quest for Comments. nnical report. que number with versions. not modify - only introduce new versi all RFCs are standards. us. Informational, Experimental, Best dards Track, or Historic.	S ing in WSN s. paches. roup. ion. t Current Practice,	Auding Potect for Los Power and Row LETF 1 Lossy networ • Foccus on L • Netwice • Intercon Low Po • Links cl instabil • Routing req areas of LLI • Evaluation • Propose a cl networks • RPL – pron	val Law, Network ow power and Lossy networ Working group for Routing Over Lo orks (ROLL) ow power and Lossy Networks (LLI) ted in processing power, memory and nnected by a variety of links, such as I ower WiFi. haracterized by high loss rates, low da ity. juirements specification for various Ns of existing routing protocols in the common Routing Protocol for Low nounced ripple.	ks (ROLL) ow power and Ns) energy (battery). EEE 802.15.4 or ta rates and application scope of LLNs. power and lossy







