

## Протоколы маршрутизации

### Pro-active Routing (Table-driven)

Протокол	Ссылка на стандарт	Комментарий
AWDS (Ad-hoc Wireless Distribution Service)	<a href="http://awds.berlios.de">awds.berlios.de</a>	Layer 2 wireless mesh routing protocol, LGPL implementation available
Babel		inspired by DSDV, free implementation available
CGSR (Clusterhead Gateway Switch Routing protocol)	<a href="#">Cluster-Head+Gateway+Switch+Routing+Protocol.html</a>	IEEE
DFR ("Direction" Forward Routing)		
DBF (Distributed Bellman-Ford Routing Protocol)		ISBN 0-13-196825-4
DSDV (Highly Dynamic Destination-Sequenced Distance Vector routing protocol)	<a href="#">Highly+Dynamic+Destination-Sequenced+Distance-Vector+Routing.html</a>	
Guesswork	<a href="#">guesswork.pdf</a>	
HSR (Hierarchical State Routing protocol)	<a href="#">draft-oneill-li-hsr-00.txt</a>	Distance Source Distance Vector routing protocol (DSDV)
IARP (Intrazone Routing Protocol/pro-active part of the ZRP)	<a href="#">draft-ietf-manet-zone-iarp-02.txt</a>	
LCA (Linked Cluster Architecture)		
MMRP (Mobile Mesh Routing Protocol)	<a href="#">mobilemesh</a>	Realization <a href="#">mobilemesh</a>
OLSR (Optimized Link State Routing Protocol)	<a href="#">rfc3626</a> , <a href="#">www.olsr.net</a> , <a href="#">www.olsr.org</a>	Realizations: olsrd (Unik-OLSR) <a href="#">www.olsr.org</a> ; qolyester <a href="#">qolsr.iri.fr</a> ; INRIA <a href="#">olsr</a> , OOLSR and SMOLSR-MOLSR; UPV for Windows NT/CE <a href="#">olsr.htm</a>
TBRPF (Topology Dissemination based on Reverse-Path Forwarding routing protocol)	<a href="#">rfc3684</a>	
WAR (Witness Aided Routing)		
WRP (Wireless Routing Protocol)	<a href="#">murthy95routing.html</a>	

Протокол	Ссылка на стандарт	Комментарий
STAR (Source-Tree Adaptive Routing Protocol)	<a href="#">Source-Tree+Adaptive+Routing+Protocol.html</a>	

## Reactive Routing (On-demand)

Протокол	Ссылка на стандарт	Комментарий
Multirate Ad-hoc On-demand Distance Vector Routing Protocol	<a href="#">mr-aodv.pdf</a>	
Reliable Ad-hoc On-demand Distance Vector Routing Protocol		
MEPA in MANET (Minimum Exposed Path to the Attack in Mobile Adhoc Network)	<a href="#">04196209.pdf</a>	
ARA for MANET (Ant-based Routing Algorithm for Mobile Ad-Hoc Networks)	<a href="#">www.adhoc-nets.de</a>	
ACOR (Admission Control enabled On demand Routing)		July 2006 - work in progress?
Ariadne	<a href="#">ariadne.pdf</a>	
ABR (Associativity-Based Routing)	<a href="#">draft-ietf-manet-longlived-adhoc-routing-00.txt</a> , <a href="#">5987011.html</a>	
SSA (Signal Stability-based Adaptive Routing Protocol)	<a href="#">Signal+Stability-based+Adaptive+Routing+Protocol.html</a>	
AODV (Ad-hoc On-demand Distance Vector)	<a href="#">rfc3561</a>	Realizations: Ad-hoc Support Library and AODV-UIUC <a href="#">aslib.sourceforge.net</a> ; Embedded AODV & TORA <a href="#">www.novaroam.com</a> ; AODV-UCSB <a href="#">aodv.html</a> ; AODV-UU <a href="#">Main_Page</a> ; AODV for IPv6 (Based on AODV-UU) <a href="#">www.crl.se</a> ; AODV Kernel <a href="#">aodv_kernel</a> ; AODV Spanning Tree <a href="#">www.cs.ucsb.edu</a> ; UoB-JAdhoc <a href="#">www.aodv.org</a> ; UoBWInAODV <a href="#">www.aodv.org</a>

Протокол	Ссылка на стандарт	Комментарий
Ad-hoc On-demand Multipath Distance Vector		
OSPF (Open Shortest Path First)	<a href="#">rfc2328</a>	Realizations: Boeing's implementation of OSPF MANET <a href="#">ospf</a> and <a href="#">gitweb.cgi</a> ; Overlapping Relays implementation <a href="#">index.php</a>
BSR (Backup Source Routing)		
CHAMP (CacHing And MultiPath routing)	<a href="#">Infocom2003-CHAMP.pdf</a>	
DSR (Dynamic Source Routing)	<a href="#">rfc4728</a>	Realizations: DSR-UU <a href="#">Main_Page</a> ; picoNet <a href="#">piconet.sourceforge.net</a> ; Monarch implementation <a href="#">dsr-impl.html</a>
RABR (Route-Lifetime Assessment-Based Routing)	<a href="#">Route-Lifetime+Assessment-Based+Routing.html</a>	
DSRFLOW (Flow State in the Dynamic Source Routing)		
Dynamic NIx-Vector Routing		
DYMO (DYnamic Manet On-demand Routing)	<a href="#">draft-ietf-manet-dymo-14.txt</a>	Realization <a href="#">dymoum</a>
MAODDP (Mobile Ad-hoc On-Demand Data Delivery Protocol)	<a href="#">MAODDP1.html</a>	Realization <a href="#">annualcon.pdf</a>
ARAN (Authenticated Routing for Ad-Hoc Networks)	<a href="#">arand</a>	

## Flow Oriented Routing

Протокол	Ссылка на стандарт	Комментарий
GB (Gafni-Bertsekas)	<a href="#">Gafni-Bertsekas.html</a>	The first Link Reversal Routing (LRR) algorithm
IERP (Interzone Routing Protocol/reactive part of the ZRP)	<a href="#">draft-ietf-manet-zone-ierp-02.txt</a>	
LBR (Link life Based routing)	<a href="#">Link+Life+Based+Routing.html</a>	

Протокол	Ссылка на стандарт	Комментарий
LMR (Lightweight Mobile Routing protocol)	<a href="#">Lightweight+Mobile+Routing.html</a>	
LQSR (Link Quality Source Routing)	mesh	Version of DSR with Link Quality Metrics. Realization <a href="#">mesh</a>
LUNAR (Lightweight Underlay Network Ad hoc Routing)	<a href="#">LUNAR, 2003-021-nc.pdf</a>	
MOR (Multipath On-demand Routing Protocol)	<a href="#">205690300.pdf</a>	
MPRDV (Multipoint Relay Distance Vector protocol)	<a href="#">algotel2003ajv.pdf</a>	
QuaSAR (QoS aware source initiated ad-hoc routing)	<a href="#">quasar_secon04.pdf</a>	both reactive and proactive mechanisms that aim to diminish the communication disruption time experienced in highly mobile ad-hoc networks
RDMAR (Relative-Distance Micro-discovery Ad hoc Routing protocol)		Internet Draft, <a href="#">draft-ietf-manet-rdmar-00.txt</a>
SrcRR	<a href="#">srcrr-draft.pdf</a>	DSR and ETX based, optimized for performance
SSR (Signal Stability Routing protocol)		
PLBR (Preferred link based routing)	<a href="#">Preferred+Link-Based+Routing+Protocol.html</a>	
FORP (Flow-Oriented Routing Protocol)	<a href="#">Flow-Oriented+Routing+Protocol.html</a>	

### Adaptive Routing (Situation-Aware)

Протокол	Ссылка на стандарт	Комментарий
TORA (Temporally-Ordered Routing Algorithm routing protocol)	<a href="#">draft-ietf-manet-tora-spec-04</a>	A Link Reversal Routing (LRR) algorithm. Realization <a href="#">Temporally-Ordered+Routing+Algorithm.html</a>

### Hybrid (Pro-Active/Reactive)

Протокол	Ссылка на стандарт	Комментарий
ARPAM		for aeronautical MANETs
HRPLS (Hybrid Routing Protocol for Large Scale Mobile Ad Hoc Networks with Mobile Backbones)		
HSLS (Hazy Sighted Link State routing protocol)	<a href="#">hsls, progress_report, TM1301.pdf</a>	CUWiN implementation for NetBSD <a href="#">download</a>
OORP (OrderOne Routing Protocol)	<a href="#">www.orderonenetworks.com</a>	Patented

Протокол	Ссылка на стандарт	Комментарий
TORA		See before
ZRP (Zone Routing Protocol)	<a href="#">draft-ietf-manet-zone-zrp-04.txt</a>	uses IARP as pro-active and IERP as reactive component. Realization <a href="http://www.zrp.be">www.zrp.be</a>
BRP (Broadcast Resolution Protocol)	<a href="#">Broadcast+Resolution+Protocol.html</a>	Made from ZRP
SBMP (SBoX Management Protocol)	<a href="#">comnet127.ps, S1389128600002085</a>	Smart box architecture: a hybrid solution for IP QoS provisioning
ADV (Adaptive Distance Vector Routing)	<a href="#">Adaptive+Distance+Vector+Routing.html</a>	
TLR/TRR/AGPF Terminode Routing	<a href="#">TUM-I0311.pdf</a>	

## Hierarchical Routing Protocols

Протокол	Ссылка на стандарт	Комментарий
CBRP (Cluster Based Routing Protocol)	<a href="#">Cluster+Based+Routing+Protocol.html</a>	
CEDAR (Core Extraction Distributed Ad hoc Routing)	<a href="#">Core+Extraction+Distributed+Ad+Hoc+Routing+Protocol.html</a>	<a href="#">draft-ietf-manet-cedar-spec-00.txt</a>
DART (Dynamic Address Routing)	<a href="#">dart.cs.ucr.edu</a>	
DDR (Distributed Dynamic Routing Algorithm)	<a href="#">ddr.ps</a>	
FSR (Fisheye State Routing protocol)	<a href="#">Fisheye+State+Routing.html</a>	<a href="#">draft-ietf-manet-fsr-00.txt</a>
GSR (Global State Routing protocol)	<a href="#">60636.html, jsac99.ps.gz</a>	
HARP (Hybrid Ad Hoc Routing Protocol)	<a href="#">harp.ps</a>	
HSR (Host Specific Routing protocols)		

Протокол	Ссылка на стандарт	Комментарий
HSR (Hierarchical State Routing)		See pro-active routing
LANMAR (Landmark Routing Protocol for Large Scale Networks)		draft-ietf-manet-lanmar-01.txt
ATR (Augmented Tree-based Routing)	<a href="#">0711.3099</a>	

## Geographical Routing Protocols

Протокол	Ссылка на стандарт	Комментарий
ALARM (Adaptive Location Aided Routing Protocol - Mines)	<a href="#">Boleng-PhD.pdf</a>	
BGR (Blind Geographic Routing)		
DREAM (Distance Routing Effect Algorithm for Mobility)		ACM/IEEE Mobicom, pages 76-84, October 1998
GLS(Grid) (Geographic Location Service)		
LAR (Location-Aided Routing protocol)	<a href="#">Location-Aided+Routing+Protocol.html</a>	ACM/IEEE Mobicom, pages 66-75, October 1998
GPSAL (GPS Ant-Like Routing Algorithm)		Baltzer Journal of Telecommunications Systems, 18:1-3, 85-100, Kluwer Academic Publishers, 2001
ZHLS-GF (Zone-Based Hierarchical Link State Routing Protocol with Gateway Flooding)	<a href="#">ZHLS-GF</a>	
GPSR (Greedy Perimeter Stateless Routing)	<a href="#">Greedy+Perimeter+Stateless+Routing.html</a>	
Greedy Face Greedy (GFG)	<a href="#">1581131747, 313239.313282</a>	
SiFT (Simple Forwarding over Trajectory)		
FACE		see GFG
GEDIR (Geographic Distance Routing)		

## Power Aware Routing Protocols

Протокол	Ссылка на стандарт	Комментарий
ISAIAH (Infra-Structure Aodv for Infrastructured Ad Hoc networks)		

Протокол	Ссылка на стандарт	Комментарий
PAR (Power-Aware Routing Metrics)	<a href="#">Power-Aware+Routing+Metrics.html</a>	
PARO (Power-Aware Routing Optimization Protocol)	<a href="#">draft-gomez-paro-manet-00.txt</a>	
EADSR (Energy Aware Dynamic Source Routing Protocol)		
PAMAS (PAMAS-Power Aware Multi Access Protocol with Signaling Ad Hoc Networks)		
DSRPA (Dynamic Source Routing Power-Aware)		

## Multicast Routing

Протокол	Ссылка на стандарт	Комментарий
ABAM (On-Demand Associativity-Based Multicast)	<a href="#">On-Demand+Associativity-Based+Multicast.html</a>	
ADM (Adaptive Demand-Driven Multicast Routing)	<a href="#">Adaptive+Demand-Driven+Multicast+Routing.html</a>	
AMRIS (Ad hoc Multicast Routing protocol utilizing Increasing id-numbers)	<a href="#">A+Multicast+Protocol+for+Ad+Hoc+Wireless+Networks.html</a>	
AMRoute (Adhoc Multicast Routing Protocol)		
AQM (Ad Hoc QoS Multicast)		
BEMRP (Bandwidth-Efficient Multicast Routing Protocol)		
CAMP (Core-Assisted Mesh Protocol)		
CBM (Content Based Multicast)		
DCMP (Dynamic Core Based Multicast Routing Protocol)		
DDM (Differential Destination Multicast)		
DSR-MB (Simple Protocol for Multicast and Broadcast using DSR)		
ExOR (Extremely Opportunistic Routing)	<a href="#">ExOR_%28wireless_network_protocol%29</a>	
FGMP (Forwarding Group Multicast Protocol)		
LAM (Lightweight Adaptive Multicast)		

Протокол	Ссылка на стандарт	Комментарий
MAODV (Multicast Ad-hoc On-Demand Distance Vector routing)		
MOLSR (Multicast Optimized Link State Routing)	<a href="#">rr-4721.html</a>	
MCEDAR (Multicast Core-Extraction Distributed Ad hoc Routing)		
MZR (Multicast Zone Routing)		
ODMRP (On-Demand Multicast Routing Protocol)	<a href="#">odmrp-wcnc99.ps.gz</a>	
PUMA (Protocol for Unified Multicasting Through Announcements)	<a href="#">Puma</a>	<a href="#">Log in!</a> <a href="#">freeabs_all.jsp</a>
SMF (Simplified Multicast Forwarding)	<a href="#">draft-ietf-manet-smf-07.txt</a>	
SPBM (Scalable Position-Based Multicast)	<a href="#">Transier2004c.pdf</a>	
SRMP (Source Routing-based Multicast Protocol)		
EraMobile (Epidemic-based Reliable and Adaptive Multicast)		<a href="#">Log in!</a> <a href="#">abs_all.jsp</a>
OBAMP (Overlay, Boruvka-based, Ad-hoc multicast Protocol)		

## Geographical Multicast Protocols (Geocasting)

Протокол	Ссылка на стандарт	Комментарий
LBM (Location Based Multicast)		
GeoGRID (Geographical GRID)		<a href="#">see GLS</a>
GeoTORA (Geographical TORA)		
MRGR (Mesh-Based Geocast Routing)		
MOBICAST (Mobile Just-in-time Multicasting)		
Abiding Geocast / Stored Geocast (Time Stable Geocasting)		

## Other Protocol Classes

Протокол	Ссылка на стандарт	Комментарий
FQMM (Flexible QoS Model for MANET)	<a href="#">VTC2000Spring-FQMM.pdf</a>	

Протокол	Ссылка на стандарт	Комментарий
SMP (Skewed Map Forwarding)	<a href="#">MedHocNet2006-Skewed-Map-Forwarding.pdf</a>	
INSIGNIA (In-band signaling support for QoS in Mobile Ad hoc Networks)	<a href="#">insignia</a>	
IMEP (Internet Manet Encapsulation Protocol)		
ANMP (Adhoc Network Management Protocol)	<a href="#">anmp.html</a>	
Terminode Routing		
B.A.T.M.A.N. (Better approach to mobile adhoc networking)		
W2LAN (Wireless to LAN Protocol)	<a href="#">0889864454</a>	
ODLW (On-Demand Link-Weight routing protocol for Ad Hoc Networks)		Search here <a href="#">adhoc</a>
STP (Spanning Tree Protocol)	<a href="#">Spanning_tree_protocol</a>	
DST (Distributed Spanning Tree Protocol)		Search here <a href="#">getdoc.cfm</a>
FSLS (Fuzzy Sighted Link State Algorithms)		

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