

Physical/Logically Connectivity Options				SP Solutions for DCI				Customer Solutions / Overlay for DCI				Not DCI Option					
Datacenter Interconnect Options				Dark Fiber	DWDM	L2 Trunks	L3 PTP Links	MPLS L3VPN	MPLS L2VPN	VPLS	EVPN	OTV	GRE / IPSEC Tunnels	VXLAN NVGRE, Geneve	TRILL	LISP	
Business	Business Continuity	YES	YES	YES	YES			YES	YES	YES	YES	YES	YES	YES	YES	YES	
	Workload Mobility	YES	YES	YES	NO			NO	YES	YES	YES	YES	NO	YES	NO	NO needs underlay support	
	Disaster Recovery	YES	YES	YES	YES			YES	YES	YES	YES	YES	YES	YES	YES	YES	
	Site Migrations	YES	YES	YES	YES			YES	YES	YES	YES	YES	YES	NO	NO	YES	
	Load Balancing Workloads	YES	YES	YES	YES			YES	YES	YES	YES	YES	NO	YES	YES	YES	
	Efficiency	LOW	LOW	LOW	LOW			MEDIUM	LOW	MEDIUM	HIGH	HIGH	LOW	LOW	MEDIUM	HIGH	
	Scalability	LOW	LOW	MEDIUM	MEDIUM			HIGH	MEDIUM	MEDIUM	HIGH	MEDIUM	LOW	HIGH	LOW	HIGH	
	Solution Complexity	LOW	MEDIUM	LOW	LOW			LOW	MEDIUM	MEDIUM	MEDIUM	HIGH	HIGH	HIGH	MEDIUM	HIGH	
Architectural	Solution Cost (CAPEX, Rent)	EXPENSIVE	VERY EXPENSIVE	MEDIUM	MEDIUM			MEDIUM TO HIGH	MEDIUM TO HIGH	MEDIUM TO HIGH	HIGH	LOW	LOW	LOW	LOW	LOW	
	Layer 2 Extension	YES	YES	YES	NO			NO	YES	YES	YES	YES	NO	YES	YES	NO needs underlay support	
	Path Optimization	NO	NO	NO	NO			NO	NO	NO	NO	NO	NO	NO	NO	YES	
	+3 DCs (ease of deployment)	COMPLEX	COMPLEX	MEDIUM	MEDIUM			EASY	MEDIUM	EASY	EASY	EASY	EASY	COMPLEX	EASY	COMPLEX	MEDIUM
	Multi-Tenancy	NO	NO	NO	NO			YES	YES	YES	YES	YES	NO	YES	NO	YES	
	QoS	YES Upper layers	YES Upper layers	YES QoS	YES DSCP			YES(EXP)	YES(EXP)	YES(EXP)	YES(EXP)	Depends on Underlay	Limited	Depends on Underlay	Depends on Underlay	N/A	
	Application Geo Location Clusters	NO	NO	NO	NO			YES	NO	NO	YES	YES	NO	YES	NO	YES	
	Transport Independent	NO	NO	NO	NO			NO Somehow	NO Somehow	NO Somehow	YES	YES	YES	YES	YES	YES	
Technical	Multihoming (Loop avoidance)	YES 2 site limit	YES 2 site limit	NO	NO			NO	YES	YES	NO	NO	NO	NO	YES	NO	
	Multipathing (Load Balancing)	YES 2 site limit	YES 2 site limit	NO	YES			YES	YES	YES	YES	NO	NO	NO	Depends on DCI	YES	
	Operations Maintenance	SIMPLE	MEDIUM	SIMPLE	SIMPLE			SIMPLE	MEDIUM	COMPLEX	MEDIUM	MEDIUM	COMPLEX	MEDIUM	MEDIUM	MEDIUM	
	Operations Rebalancing Workloads	YES	YES	YES	YES			YES	YES	YES	YES	YES	NO	YES	YES	NO	
Operational																	

BROUGHT TO YOU BY



FOR QUESTIONS, SUGGESTIONS, AND DISCUSSIONS

MOHAMED RADWAN

m.radwan@agileis.com.au

ZIG ZSIGA

zig@zibits.tech