Open Source 5G O-RAN Decision Matrix

Attribute	AirSpan	Casa Systems	SD-RAN (Aether)	Radisys	OAI RAN
Services	vDU/vCU/RIC	vCU/HEDG/vRU	vDU/vCU/RIC	vCU/vDU/RIC	vCU/vDU/RIC
5G Compatibility	YES	YES	YES	YES	YES
Software Requirements	Not Public	Not Public	• Ubuntu 18.04	Not Public	• Ubuntu 14.04 • Docker • k8s
Hardware Requirements	Not Public, but they mentioned that their software is flexible	Not Public, but they mentioned that their software is flexible	• Intel i7 Processor • 8GB RAM • NUCs	Not Public	• Intel Core i5/i7 with minimum of 4 cores. • 8GB RAM
3GPP compliant	Based on open interfaces such as O-RAN, Small Cell Forum (nFAPI), 3GPP F1, and ONAP orchestration.	YES	SD-RAN is ONF's new exemplar platform for 3GPP compliant software-defined RAN that is consistent with the O-RAN architecture.	Standardized management interfaces for FCAPS and data models per 3GPP and O-RAN are supported for easy integration with element management and network management systems.	the project is working closely with the community to evolve the software towards future 5G releases of 3GPP.
Open Source	Requires subscription; needs to be contacted	Requires subscription; needs to be contacted	YES	Requires subscription; needs to be contacted	YES

full research

glossary

O-RAN: open radio access network
vCU: virtual control unit
vDU: virtual distributed unit
HEDGE: high efficiency DU and gateway
RIC: ran intelligent controller
NUCs: next unit of computing
3GPP: 3rd generation partnership project
ONAP: Open network automation platform
OAI: open air interface
FCAPS: fault, configuration, accounting, performance and security
n-FABI: 5g network functional application platform interface