

Accelleran RAN Software Solutions

PLATFORM-AGNOSTIC RAN SOFTWARE SOLUTIONS

Accelleran RAN and vRAN Software Solutions have been architected to enable from fully embedded Small Cell products to virtualised architectures with Accelleran dRAX™.

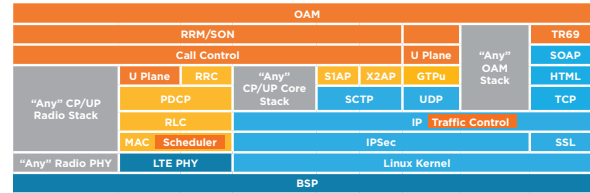
CARRIER AND MISSION CRITICAL GRADE SOLUTIONS

Accelleran delivers beyond carrier-grade solutions with stringent automatic regression test regimes and development processes with zero-tolerance to defects.



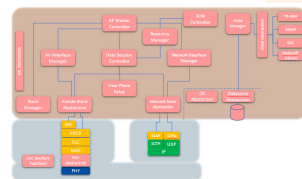
LOWEST COST

For lowest cost the SmallCell Software is available in HW platforms tailored to the needs of the different segments and architectures.

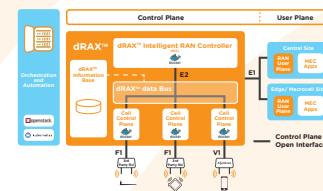


Software, Testing & Integration

Integrated Small Cell Software



vRAN Software

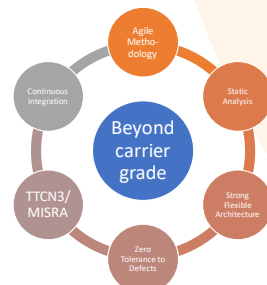


RAN SOFTWARE EXPERTISE

Accelleran RAN Software is a Carrier and Mission-Critical grade and architecture agnostic RAN and vRAN Software solution. It can be deployed in fully embedded Small Cell platforms (using leading Small Cell SoCs) and also in ORAN-compatible virtualized architectures based on Openstack/Kubernetes orchestration frameworks (Accelleran dRAX™ RAN Intelligent Controller).

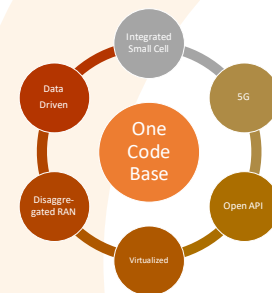
Accelleran's excellence in execution delivers beyond carrier grade solutions:

- Agile Methodology
- Continuous integration
- MISRA /TTCN3
- Zero-tolerance to defects
- Strong flexible architecture
- Static analysis



Accelleran's future proof architecture is based on a single code base supporting:

- Integrated small cell
- Data driven architecture
- Disaggregated RAN
- Virtualisation
- Open APIs
- 5G-Ready components



Whether you need to deploy fully embedded, virtualized (with dRAX™) or mixed RAN solutions, Accelleran RAN software gives the assurance that a single carrier-grade RAN Software base will need to be integrated just once into their network to support any architecture.

• Integrated Small Cell Software

Our RAN software solutions are currently enabling fully embedded products such as the E1000 Series, L1000 Series, OpenCellular, etc...



• vRAN Software (dRAX™)

Accelleran dRAX™ delivers a true multi-vendor, disaggregated and virtualised RAN Intelligent Control Plane as per ORAN.

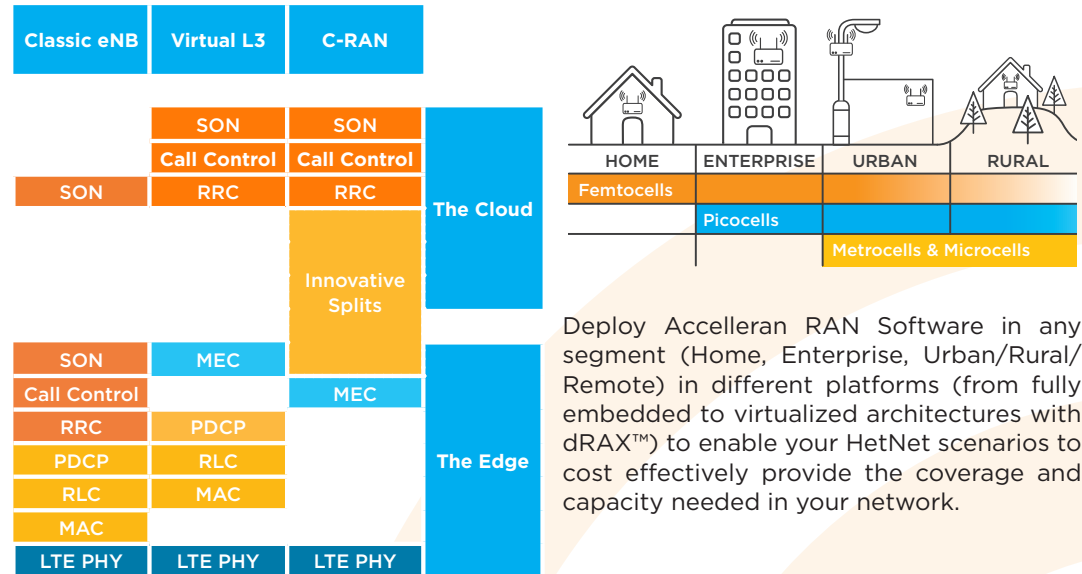


The Flexible RAN Software for HetNets

ABOUT ACCELLERAN

The Accelleran team has been a recognized leader in the small cell industry for more than ten years. With an average experience of 20+ years each, the team offers unrivalled expertise across the full range of skillsets required for success in the challenging RAN solution market.

The results of this experience have been distilled into the Accelleran RAN Software Solutions.



Deploy Accelleran RAN Software in any segment (Home, Enterprise, Urban/Rural/Remote) in different platforms (from fully embedded to virtualized architectures with dRAX™) to enable your HetNet scenarios to cost effectively provide the coverage and capacity needed in your network.

RAN Software Technical Specification

Single Carrier or Multi-Carrier (Dep HW) LTE FDD or TDD RAN SW	
Transceiver Specification (HW dependent)	Band Support (HW dependent)
<ul style="list-style-type: none"> • 2 x 2 MIMO / 4x4 MIMO / 8x8 MIMO • Home/Local/Wide Area Basestation Class • From 50 mW up to 10W RF power/antenna port • Single Carrier or Multi carrier 	<ul style="list-style-type: none"> • All standard LTE FDD and TDD Bands (incl. CBRS with SAS integration)
Network Interfaces	
Layer 1 & 2	Layer 3 and OAM
<ul style="list-style-type: none"> • GbE Interface with flexible service configuration • Split 2 <ul style="list-style-type: none"> • Pre-ORAN Proprietary V1-C (GTP-U) • Pre-ORAN Proprietary V1-C/V1-U • ORAN/3GPP F1-C/F1-U • Split 6: Small Cell Forum nFAPI • Split 7: Dependent on RRU capabilities 	<ul style="list-style-type: none"> • Type 1 OAM (TR-069/TR-196), Type 2 OAM (SNMP), OAM Webserver or CLI, SAS (CBRS) • Alternative OAM interface possible (XML, Netconf, Proprietary) • Proprietary Centralized/Hybrid/Distributed SON or ORAN-based • Control Plane: S1-MME (LTE or NSA 5G-NR) • User Plane: S1-U (LTE or NSA 5G-NR) • ORAN A1, 3GPP E1 (CUPS) and internal 3GPP E2 (dRAX™)
Key Features	
<ul style="list-style-type: none"> • 3GPP compliant • Cloud Native Service Components • ORAN Architecture Compliant • Service Orchestration • CUPS • User Plane distribution 	<ul style="list-style-type: none"> • 4G and 5G ready • Highly Scalable • Mission Critical Reliability • OAM (CM, PM, FM, Diagnostics) & SON • Embedded EPC for integrated Small Cells • Neutral Host (GWCN/MOCN/MORAN/Slicing)
Virtualisation	
<ul style="list-style-type: none"> • VM: Openstack (RedHat and ADVA) • Containers: RedHat OpenShift, Kubernetes 	

© 2019 Accelleran N.V. all rights reserved. Accelleran and the Accelleran logo are trademarks of Accelleran. All other trademarks are the property of their respective owners. Although Accelleran strives for accuracy in all its publications, this material may contain errors or omissions and is subject to change without notice. This material is provided as is and without any express or implied warranties, including merchantability, fitness for a particular purpose and non-infringement. Accelleran shall not be liable for any special, indirect, incidental or consequential damages as a result of its use.

FURTHER INFORMATION

Please visit our website
www.acceleran.com

Contact us

info@acceleran.com
 Accelleran N.V
 Quellinstraat 49
 2018 Antwerp
 Belgium