



Druid

5G For Smart Communities

Emergency, Safety & Security Workgroup



[linkedin.com/in/druid-software/](https://www.linkedin.com/company/druid-software/)



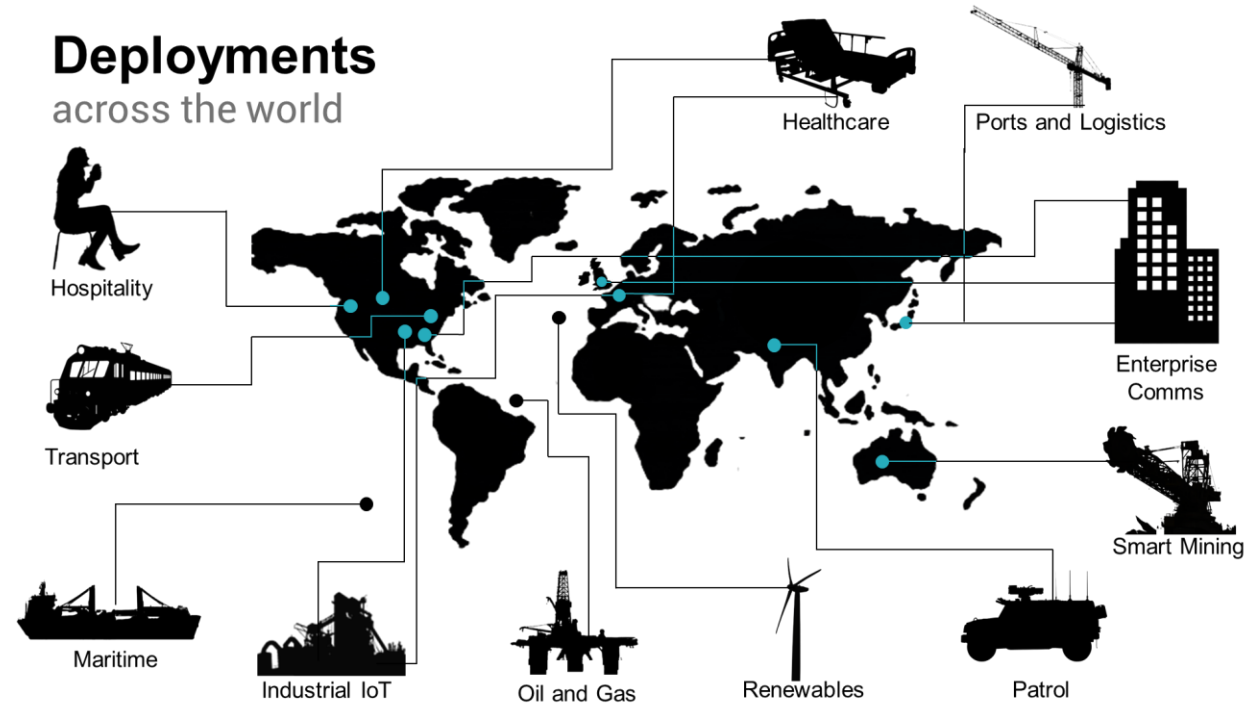
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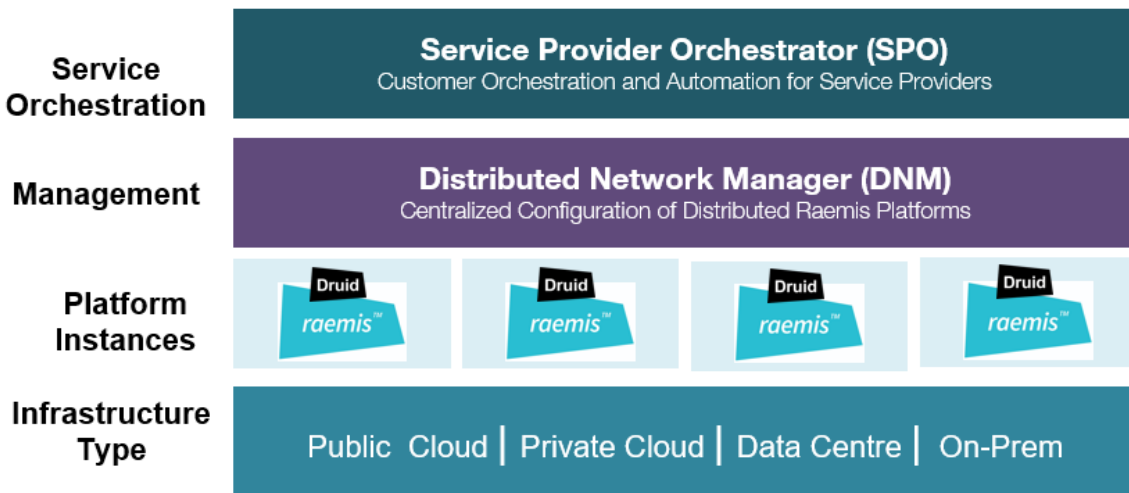
About Druid

- Global leader in providing specialized cellular solutions to a range of markets
- HQ in Dublin, Ireland. Support centers around the world in US, Netherlands, India & Japan.
- Market leader in 5G/4G Public & Private Networks for NTN and Enterprise Applications



5G for Smart Communities

- Druid reaches the private mobile network market via a worldwide ecosystem of Service Providers
- Service Providers supplies the end-customers with Telecoms expertise for network design and management
- Druid's Service Provider Orchestrator solution is a business tool used to automate the deployment and management of campus/private mobile networks on a large scale



Druid's Strategy to Address Managed Service Provider (MSP) Requirements

Private Networks



- Easily-to-deploy and manage Private Cellular Core Network Solutions built on our Raemis Platform
- Scalable implementations, with different options for Core Network Size and servers
- 4G & 5G
- Feature-rich, supporting advanced functionality such as Network Slicing, 5G LAN, Non-3GPP Access, and LMF.

Network Management



- Central management of a distributed network architecture of Raemis deployments using our Distributed Network Manager (DNM) sub-system
- Allows all Raemis instances used by a customer to be configured and managed from a single-pane-of-glass
- Provides control over subscriber permissions and access rights across all private networks for that customer

Managed Services



- Druid's Service Provider Orchestrator (SPO) supports the automation, orchestration and management of solutions sold by MSPs to multiple Private Cellular customers
- Supports customer creation, deployment and licensing of necessary Raemis and DNM software, and distribution of SIM cards
- Dashboard view of overall state of deployed networks.



5G For Smart Communities Use Cases

Communities, Public Safety, Critical Infrastructure

Irish Government 5G Networks - OGCIO

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Customer Need:

In 2023, the OGCIO (Office of the Government Chief Information Officer Department of Public Expenditure and Reform, in Ireland), also known as Government Networks (GN) ran a public tender for the creation of a 5G ecosystem operated by the OGCIO. This ecosystem will be used to examine specific wireless frequency blocks that will inform a decision on future frequency use for the Irish public service. This ecosystem will also be used as part of Ireland's coordinated participation in the Broadway European Public Safety network (now known as EUCCS Prep).

The Solution:

- Broadband Cellular extension of IGN network
- Cellular multi-tenant Layer 2 network extension
- SIM based authentication over IGN WiFi Networks
- Vehicular Emergency cellular network bubbles with MCX applications
- Neutral host sharing of IGN cellular spectrum
- Inbound roaming to IGN networks with emergency services support
- Outbound roaming of IGN private SIM's

Potential End Users	Solution Provider (Druid Partners)	Applications	5G Core Platform	RAN (Base Stations)
 the new children's hospital  An Garda Síochána	 Rialtas na hÉireann Government of Ireland  Office of the Government Chief Information Officer	 5G wave  Mission Critical Communications	 Druid raemis™	 ASKEY  AW2S  microamp SOLUTIONS



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DRUID PLAY A CRITICAL ROLE IN IRELAND'S NEW MISSION CRITICAL COMMUNICATIONS SYSTEMS

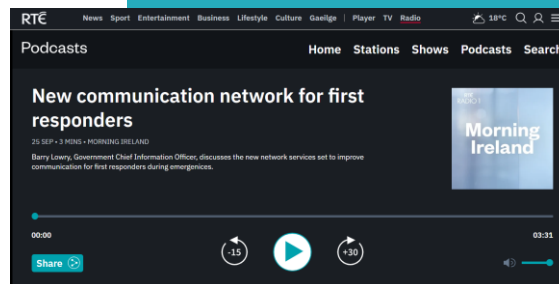


"We are thrilled to see the announcement of Ireland's new Mission Critical Communications System to boost rural safety and connectivity. Congratulations to our partners OGCI0 (Office of the Government Chief Information Officer in Ireland) on this landmark achievement.

Druid are honoured to be part of this journey. Our Raemis distributed architecture, which enables multiple Raemis 5G cores across a broad nationwide platform, played an integral role in the testing phase and supported all testing efforts in close collaboration with the ecosystem built around OGCI0. From device vendors to network partners, to ensure seamless interoperability and resilience.

This initiative is a significant step forward for public safety and rural connectivity in Ireland. We look forward to continuing to support this vital infrastructure and delivering mission-critical communication capabilities for first responders, even in the most remote or challenging environments."

<https://gov.ie/en/department-of-public-expenditure-infrastructure-public-service-reform-and-digitalisation/press-releases/ministers-welcome-new-emergency-communications-system-to-boost-rural-safety-and-connectivity/>



An Roinn Caiteachais Phoiblí
Sheachadadh PFN agus Athchóirithe
Department of Public Expenditure
NDP Delivery and Reform

Private Network Solutions for Nuclear & Thermal Energy

Druid

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Customer Need:

EDF recognised the need to upgrade the connectivity in thermal and nuclear plants for improved data transmission, real-time monitoring, and enhanced safety measures. They became aware how new technologies like 5G enables faster response times, predictive maintenance, and efficient operations.

The Solution:

Druids integration partner TDF, deployed the Druid Raemis 5GC at the EDF nuclear and thermal plants, to enable real-time monitoring, remote operations, and predictive maintenance. This ensures enhanced safety, efficiency, and reliability. The solution supports critical use cases like emergency response, asset management, and regulatory compliance, advancing plant operations effectively.

Key benefits for Industry

Include improved operational efficiency, real-time data analytics, enhanced safety measures, and remote monitoring capabilities. 5G enables predictive maintenance, optimized asset management, and supports innovative applications for smart manufacturing and energy production.

Energy Providers	Solution Provider (Druid SI Partners)	4G Core Platform	RAN (Base Stations)
			



Q&A

Any questions please reach out to us

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Thank You