

# WorldGSM™ Cloud OMC

All IP small footprint Network Management solution for VNL WorldGSM™ products hosted on Public/Private Cloud Infrastructure

## OVERVIEW

The WorldGSM™ Cloud OMC (Operations & Maintenance Center) is a cost effective, carrier grade network management solution which enables efficient network management and a high quality network and thus helps Operators to address rural and remote markets profitably.

WorldGSM™ Cloud OMC can be tailored to meet the operator's requirements for both small and large networks. It is based upon a generic, multipurpose Network management framework. OMC is architected using the robust client-server architecture and can be easily dimensioned based upon the network requirements.

The combined integrated solution – Cloud OMC, Cloud BSC/Cloud ESN and VNL BTS solutions (e.g. Micro1-BTS), makes network expansion and operations a viable business proposition for Mobile Operators, especially in following market segments:

- **Rural and Remote Communities** usually deprived of mobile services due to low ARPU and accessibility challenges
- **Remote Enterprises** like mines, offshore oil fields, usually deprived of mobile services due to accessibility challenge
- **Enterprises** like SMBs, Hospitals requiring dedicated coverage and capacity
- **Public Safety Agencies** like for emergency response, where time to provide services with minimum infrastructure dependencies is the key

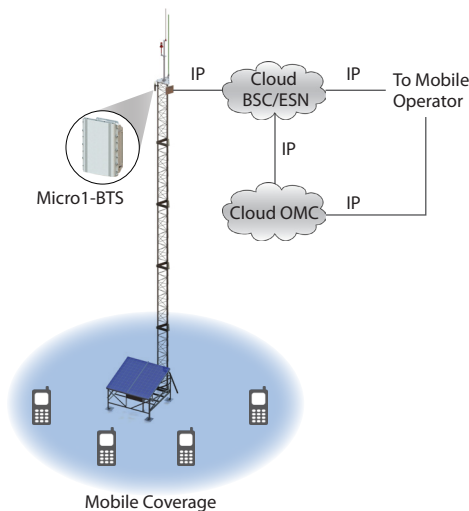
Cloud OMC software can be hosted on public cloud, Private cloud or even on a industry grade IT server hosted in end customer premise like Enterprise – corporate park etc.

## BENEFITS

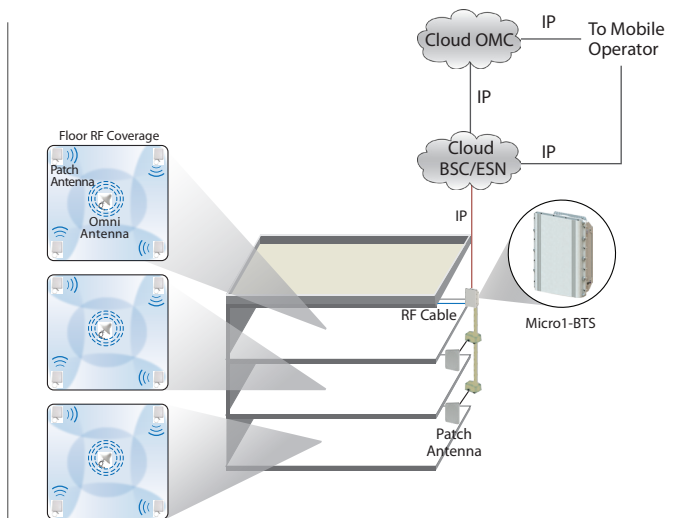
- **Low entry cost for network operations** - makes telecom services profitable even at low ARPU levels
- **Expand rapidly and scale due to better connectivity of Cloud infrastructure**
- **Minimal downtime and Improved Network Efficiency** due to efficient work procedures, consistent intuitive GUI and rapid fault resolution
- **Reduced Opex due to Cloud hosting and Integrated for handling Sub-Networks** – VNL Radio Access, Power, Backhaul
- **Flexibility** - Extensive tool for supervision, configuration, deployment and optimization of network

## HIGHLIGHTS

- **User Friendly – Task Specific and Intuitive GUI, Job Scheduling, Fast Navigation**
- **Small Footprint – Start from as Low as 12 BTS Sites**
- **Cloud Hosted – Reduced Opex and Entry Barrier**
- **3GPP Standards Compliant – Better Performance and Interoperability (North Bound Interfacing)**
- **Performance Monitoring and Remote Diagnostics Facility**



*Typical Micro1-BTS Outdoor Site with IP radio or VSAT backhaul towards Mobile operator*



*Typical Micro1-BTS Indoor deployment with a few indoor patch, omni antennas and IP backhaul towards Mobile operator*

**Related Products:** Deployed with Cloud BSC/Cloud ESN

# WorldGSM™ Cloud OMC

## SPECIFICATIONS

SYSTEM	
Functionality	OMC Server for BSC, VNL Transmission and VNL Power, VNL Cloud ESN*
Redundancy	1+1
CAPACITY	
OMC Server	Minimum Reference Server Configuration 2 x Xeon Quad Core 2.5 GHz Processor, 8 GB RAM, 3 x 300 GB HDD Storage, RAID /SAN Support Level 5 RHEL Server Edition 5.5 32 bit Oracle Linux Server Edition 6.6 (32 bit)
VNL BSC + Supporting Transmission and Power Nodes	9 ( Cloud BSC - 50 TRX Support )
OMC Client	Minimum Reference Client Machine Configuration Processor 1.5GHz or higher 2 GB or higher RAM Hard Disk 10GB Minimum Available Space RHEL Server Edition 5.5 32bit Oracle Linux 6.4 32 bit Win XP, Win 7 Pro, Win 8 Pro 32 & 64 bit
Simultaneous OMC Clients	10
FEATURES	
3GPP Compliance	TS 52.402, TS 32.111-3
FCAPS Support	Yes
Job scheduler	Yes
Remote Upgrade Supervision	Yes
Notification	Email, SMS for Critical and Major Alarms
Geographical Viewer	Yes
Security Administration	Yes
VNL Power System monitoring	Yes
VNL Backhaul Transmission Management	Yes
INTERFACES	
VNL Cloud BSC/ Cloud ESN	IP
North Bound Interface	Fault Management/ Notification IRP over CORBA
Protocol	SNMP
VNL SON Server*	IP

\* Roadmap

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