



INALA BROADCAST

BROADCAST & PROFESSIONAL SYSTEM INTEGRATION

COMPANY PROFILE & CV

Inala Broadcast - division of Inala Technologies (Pty) Ltd., represents a number of leading international suppliers to the Broadcast and Professional ProHD technology markets.

Our partnership approach with these world leaders and innovators gives us access to their products, technical expertise and enables us to share this knowledge with our customers.

We have the experience of providing integrated turnkey solutions to the broadcast and professional television markets. These include the transition to HD Play-out systems, production and news studios, and head-end solutions.

At Inala Broadcast we regularly consult with our customers to discuss improvements in technology and workflows for all aspects of programme making, play-out and transmission. Our team of sales consultants and project engineers is able to offer customers expert advice, assistance, and engineering support and furthermore to confirm a competitive realistic budget and timescale to improve facilities.

Inala Technologies (Pty) Ltd. has concluded a transaction ("BEE transaction"), which has resulted in the introduction of a consortium of historically disadvantaged persons lead by Mr Andile Ngcaba as unencumbered equity share holder in Inala.

We look forward to being of service to you.

SUPPLIERS

Alpermann+Velte

ALPERMANN & VELTE

Timecode Generators and Readers.



APPLE

Non linear Editing, Graphics, Storage and Server Solutions.



ARGOSY

Equipment Solutions, ISIS and Graham Patten Group products.



AVIWEST

AVIWEST

The world's first pocket-size high definition live video transmission system for video professionals that can be used wherever there is cellular service.



BLUEBELL OPTICOM

Fibre Optic Transmission Equipment for the Broadcast and Telecommunications Industries.



CISCO

Routers / switches / network management.

Video-on Demand, Automated Quality Control, Broadband TV and Professional Streaming for Internet Solutions



DOLBY DIGITAL

State of the art audio products incorporating Dolby Technology for Broadcasters and Audio Professionals.



DTL

Digital/Analogue DA's, Miniblox products.



ENPS

Electronic News Production System.



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ERICSSON
Digital Video with Advanced Compression on-Demand and Interactive Technology.



GIGASAT
Manufacturer of products and systems for the Satellite Communications industry.



JVC PROFESSIONAL
A full range of Broadcast and Studio Equipment, as well as Display Technology.



MIRANDA TECHNOLOGIES
A leading provider of On-air Presentation Systems, Imagestore and Logostore Products Routing Switchers, Digital Video and Audio Interfaces, DTV/HDTV, Converters and Advanced Display Products. Omnibus has been purchased by Miranda is now part of the Miranda portfolio of products.



MOG TECHNOLOGIES
MOG offers a diverse, award-winning product family of powerful MXF and GXF tools that enable accelerated development and migration to the next generation of IT-based multimedia content applications.



HARMONIC OMNEON
Suppliers of Networked Media Servers.



RIEDEL
Intercom Systems.



STARFISH TECHNOLOGIES
Subtitling, Audio Description, Scheduling, Media Management, Special Projects and Teletext.



TE Connectivity
Patching Systems, Cable Management, Connectors, and Installation Tools.



TEKTRONIX
Video and Television, Test & Measurement Equipment.



TELESCRIPT
Teleprompters.



TSL
Audio Monitoring, Tally Systems and Power Distribution.



TVLOGIC
Multi-Format LCD monitors.



VIDESSENCE
Energy-efficient Fluorescent Lighting Systems for Television, Studio, ENG, and Corporate Applications.



WEATHER ONE
Weather Graphics Systems.





PROJECT HIGHLIGHTS:

1999/ 2000

Botswana Television

Inala Broadcast (as Broadcast Visions) supplied a complete JVC Professional D-9 system, including D-9 VTR Recorders and Players. We also supplied all the monitors to Botswana Televisions from the JVC Professional range.

2000

M-Net Final Control System

Inala Broadcast (as Broadcast Visions) has supplied around 15 x Master 21's and a 4 channel digital M-2100.

2001

Angola Television Training Facility

Inala Broadcast (as Broadcast Visions) supplied all the equipment for a Television Training Studio, which was built in Luanda. The equipment included the JVC Professional DV range of cameras, Recorders and Players, monitors and JVC Professional Projection equipment.

2002

Channel Africa

This is a 24-hour News Channel on the DSTV bouquet. Inala Broadcast (as Broadcast Visions) was instrumental in the design of the system, which includes a server-based Journalist News Editing System, Disk based News Playout System and Digital Final Control Switcher, together with the software design and control of the semi automatic Playout system.

2002

TV Africa

Inala Broadcast (as Broadcast Visions) was instrumental in the design, planning and installation of four new Digital Final Control Centers at TV Africa's new facilities. Inala Broadcast designed the system around a central Routing Switcher and Disk Recorder. Inala Broadcast also supplied all the Modular products, the Final Control switcher as well as the monitors and cameras for the TV Africa installation.

2003

Star TV Tanzania

Inala Broadcast (as Broadcast Visions) was contracted to plan, design and install a new Digital Final Control Center as well as a Production Studio at Star TV facilities in Mwanza – Tanzania. Inala Broadcast designed the system around a central Routing Switcher and Presentation Switcher. The turnkey installation included the supply of all the modular products, studio cameras,

intercom system, monitors as well as the test and measurement equipment for the Star TV installation.

2003

Multichoice Africa

Inala Broadcast (as Broadcast Visions) was contracted by Nextream to install the Nextream MPEG encoders at Multichoice. The Nextream encoder was chosen as the replacement for their seven year old digital broadcasting platform. Multichoice broadcasts more than 60 channels and services which are received directly via satellite across Africa.

2003

Government Computer Bureau - Botswana

Inala Broadcast (as Broadcast Visions) was contracted by Dimension Data to supply video and data encapsulating equipment from Skystream for the Botswana Government Bureau. This includes installation, training, and a two-year support contract.

2003

Phumelela Gaming & Leisure Limited

Inala Broadcast (as Broadcast Visions) supplied and installed the first Thomson Grass Valley Zodiak Digital Production Switcher in South Africa at Phumelela Gaming & Leisure Limited. The Zodiak was installed in their OB van which broadcasts horse racing via the TellyTrack channel into Gauteng. The digital Zodiak was interfaced to their existing analogue equipment with Thomson Grass Valley modular converters. Inala Broadcast as part of the value-added package provided Commissioning and training to the customer.

2003

Namibia Broadcasting Corporation

Inala Broadcast (as Broadcast Visions) was awarded a tender to supply and install a Thomson Grass Valley Zodiak Digital Production Switcher at the Namibian Broadcasting Corporation (NBC) in Windhoek. This was the first real step by NBC towards digitization. The Zodiak was installed in their news studio. Inala Broadcast engineers also handled the commissioning and operational training.

2004

Namibian Broadcasting Corporation (NBC) - Final Control System

Inala Broadcast (as Broadcast Visions) was awarded an order to supply and commission a Thomson Grass Valley M2100 Master Control Switcher at NBC in Windhoek. Inala Broadcast engineers also handled the commissioning and operational training.





2004

M-NET Genesis - Final Control System

Inala Broadcast (as Broadcast Visions) was awarded an order to supply, install and commission Eight (8) Miranda Imagestore's, three 3 Master Control Switching and Channel Branding control panels, TSL Monitoring and Tektronix Video Test and Measurement products, for the first phase of M-Net's Final Channel Control system upgrade to digital, and the consolidation of their FCC's into one control area.

2004

M-NET Genesis - Final Control System – Second Phase

Inala Broadcast (as Broadcast Visions) was awarded an order to supply, install and commission Twenty (20) Miranda Imagestore's and nine Master Control Switching and Channel Branding control panels, TSL Monitoring, JVC LCD monitors and Tektronix Video Test and Measurement products, for the second phase of M-Net's Final Channel Control system upgrade to digital, and the consolidation of their FCC's into one control area.

2005

MULTICHOICE – Video over ATM Installation

Inala Broadcast (as Broadcast Visions) through our principal Thomson Broadcast and Media Solutions – Nextream, was awarded the contract for the installation and commissioning of the Multichoice video over ATM network, throughout South Africa.

2005

UNISA

Inala Broadcast (as Broadcast Visions) was awarded the contract to design, supply, install and commission a complete production/broadcast facility for UNISA at their Sunnyside Campus in Pretoria. Lectures interviews and presentations are recorded or broadcasted live to various campuses. JVC Professional cameras and monitors make up the bulk of the equipment supplied. One of the major criteria was that the studio cameras had to be remotely controlled, positioning and levels, from the control room. After Inala Broadcast completed the integration and commissioning of the facility, training was provided on all the major equipment.

2006

M-Net Genesis – Final Control System – Third Phase

Inala Broadcast was awarded an order to supply, install and commission Six (6) Miranda Imagestore's, one Master Control Switching and Four (4) Intuition advanced graphics channel branding control panels, TSL Monitoring and Tektronix Video Test and Measurement products, for the third phase of M-Net's Final Channel

Control system upgrade to digital, and the consolidation of their FCC's into one control area.

2006

E-TV Nigeria

Inala Broadcast received an order from E-TV for equipment to facilitate an FCC in Nigeria. The heart of the system consisted of a Miranda Presmaster, controlling a Grass Valley Router. Videotek Test and Measurement and JVC Monitors were included in the system. The complete system was installed and commissioned in Johannesburg before being disassembled and shipped to Nigeria for final installation.

2006

M-Net & Dolby

M-Net has taken delivery of various Dolby products that are used to streamline their audio processing. Dolby E decoding, surround sound decoders as well as loudness meters were delivered.

2006

M-Net OBs

Inala Broadcast completed a project involving the supply, integration & commissioning of equipment for a small OB Vehicle for M-Net. The equipment supplied consisted of a Grass Valley Kayak DD1 Digital Production switcher, Concerto SDI routing switcher with Jupiter Control System and various modular products. A TSL under monitor display system was also supplied for all monitor identification as well as to distribute tally information.

2006

AFDA JHB

Inala Broadcast together with New Installation Company supplied a turnkey production studio to the film and drama school, AFDA. The studio consists of three JVC studio camera chains on Vinten pedestals, Broadcast Pix production switcher, and Riedel Communication system, Telescript prompting system, Sierra Video AV routing system, JVC monitors, test and measurement products as well as DTL modular products. Lectures from the film school were trained on-site after the installation and commissioning was completed.

2007

CNBC AFRICA

Inala Broadcast was contracted to supply a full turnkey system for the establishment of the CNBC Africa facility in Johannesburg. In addition to the main system build, regional bureaus in Cape Town, Nigeria and Kenya were also built so that coverage from an African business perspective can be provided.

CNBC Africa's system consists of running a 24-hour global business channel where local productions,





covering domestic and regional business affairs, are broadcast. The system consists of an ENPS newsroom computer system, Pebble Beach automation, Miranda Imagestore, Grass Valley router, cameras, production switcher and modular products, an Omneon video server, Apple Final Cut Pro NLE's, Barco video wall, VizRT graphics, JVC Professional, Tektronix, TSL, and ADC products plus a StorageTek robotic archive library. Commissioning, operational and technical training were conducted on site.

2008 **M-Net Playout**

Inala Broadcast was awarded an order to supply, install and commission an M-Net HD Playout expansion with Omneon server for ingest and Play Out, Miranda Imagestore's, Master Control Switcher, Kaleido X Multiviewer, TSL Monitoring and Tektronix Video Test and Measurement products.

2008 **Lesotho Broadcast Corporation**

Inala Broadcast won a tender to supply an "Ingest and Play-out" turnkey solution for Lesotho TV.

The system consists of, an Omneon server with associated hardware and software (Media Controller, RecordTool, PlayTool and NLE Conform tools), Thomson Grass Valley modular products, Indigo productions switcher and video and audio router and JVC HD/SD LCD Monitors. It was designed to integrate with the existing tape based infrastructure. Commissioning as well as operational and technical training was conducted on site.

2008 **Earth-Touch – Transfer & Final Compliance Facility**

Earth-Touch provides film quality wildlife footage in High Definition from the most spectacular locations around the world. They provide the material in different formats with the required level of quality to broadcasters.

The system implemented consists of a Thomson Grass Valley Acapella 16x16 HD/SD (embedded audio) router, a reference distribution system, Tektronix HD waveform rasteriser, and a Miranda multiformat engine/universal signal processor.

The system provides a Miranda up/down/cross/ARC and HD/SD standard conversion, which is capable of normalizing 1080i 50 or 1080i 59.94 incoming feeds to the facility standard, including converting SD 625 to 525, or 1080i 59.94 to 1080i 50. The project was based on a turnkey solution, which includes installation, integration, commissioning and training.

2008 **Caught on Safari Live – National Geographic World Channel**

National Geographic World Channel goes on safari in a weeklong special filmed live from the Kruger National Park, beginning on 09 November 2008, National Geographic Channel broadcast four hours of live coverage from the reserve for seven straight days, offering viewers 28 hours of once in a lifetime, one-on-one encounters with Africa's most majestic creatures. On location at Nwanetsi Concession at Singita, one of Africa's pre-eminent safari game reserve housed inside Kruger National Park.

Inala Broadcast was contracted by Aquavision to design and build a fly-away system to cope with the harsh conditions of the Kruger National Park, that can be easily deployed to provide mobile HD video link and back-haul HD video link (supplied by Global Microwave Systems) necessary for getting the live pictures from the game drive vehicle back to the fly-away final control centre, where the feed is captured on an Omneon HD server used for capturing live content for highlights and later playback. The final playout centre consists of a Miranda HD final control switcher, multi-viewer and all the necessary fibre converters, frame stores, audio embedders together with a Tektronix HD waveform monitor, TV Logic multi-format LCD monitors, TSL audio monitoring and Alpermann+Velte time code generators.

The highlight editing is achieved with the tight integration of the Omneon server with Apple Final Cut Pro (FCP)

The system was integrated by Inala Broadcast project engineers together with BSI and Case Connection who provided the system cabling and flight cases respectively.

2008 / 2009 **South African Broadcasting Corporation Limited (SABC)**

Supply, Integration and Upgrade of Final Control Centre Short Form to Long Form Server and Omnibus Automation Upgrade.

Inala Broadcast was awarded a turnkey contract by the South African Broadcasting Corporation Limited (SABC) for the supply, integration and upgrade of Final Control Centres (FCC), Short Form to Long Form Server and Omnibus Automation Upgrade. The contract was implemented over a period of a year where the fourth (4) standby FCC was first upgraded to act as a redundant FCC, to accommodate the installation of the three new (3) FCC's, thereby alleviating the prospect of the South African Broadcasting Corporation Limited (SABC) ever being off air, while the installation was being implemented.





Omneon Spectrum was chosen as the Long Form Server, which consists of three components, 1) Main and backup 2) Transmission Server and 3) Ingest Server. Each Server component has its own multiple Play/Record MediaPorts and separate MediaStores, 7TB for the Main, Backup and Transmission Servers and 17TB for the Ingest Server. The various Server components are controlled by the upgraded Omnibus Colossus automation system.

Only after the completion of the acceptance of the installation, the training of the operational and technical staff of that specific FCC, were they moved out of FCC 4 into the new facility, before work began on the upgrade of the next FCC.

2009
Stark Studios

Inala Broadcast was awarded a turnkey contract for the design, integration, installation and training for the new Stark Studios HD project. Two mirror image control rooms were designed with three (3) Grass Valley LDK 4000 HD cameras, Grass Valley 1 ME Kayak switcher, TVLogic LCD monitors, Riedel intercom, TSL audio monitoring units ADC patch and jack fields, Tektronix test and measurement equipment per control room, with a central Grass Valley router and modular products. The design is such that the control room operate individually per studio or one can take control of a single studio that can be configured to have up to six (6) cameras at any one stage.

2009
M-Net – Server System

Inala Broadcast was awarded a contract to provide 24 Serial Digital (SD) channels of an Omneon Server and MediaGrid system which includes 3000 hours of storage.

2009
M-Net – HD Final Control

Inala Broadcast was awarded an order to supply, install and commission an additional 3 x HD Final Control Channels which includes; Miranda Imagestore's, Master Control Switcher, Kaleido X Multiviewer, TSL Monitoring and Tektronix Video Test and Measurement products.

2010
M-Net – Server System

Inala Broadcast was awarded a contract to provide an additional 64 Serial Digital (SD) channels of an Omneon Server system which includes an expansion of an extra 3000 hours of storage.

2010
M-Net – HD Omneon Server

Inala Broadcast was awarded an order to supply, install and commission 16 HD channels of an Omneon server, which includes 8 ingest and 8 play out channels with a total of 357 hours of storage (21T Bytes)

2010
M-Net – HD Final Control

Inala Broadcast was awarded an order to supply, install and commission an additional 3 x HD Final Control Channels which includes: Miranda Imagestore's, Master Control Switcher, TSL Monitoring and Tektronix Video Test and Measurement products.

2010
ODM – Network Monitoring Room (NMR)

Inala Broadcast was awarded an order to supply, install and commission a Network Monitoring Room which includes: Miranda Kaleido X Dual Head Multiviewer, Miranda Densite modular and converters, Dolby, TSL Monitoring and Tektronix Video Test and Measurement products.

2010
Star Television – Play-out system

Inala Broadcast was awarded a turnkey contract (phase 2) to supply, install, and train and commission a second play-out channel at Star Television in Mwanza, Tanzania. The equipment supplied includes Miranda Imagestore's, Master Control Switcher and Graphics Processor, Grass Valley Modular and Routing Switcher products.

2011
SuperSport – Omneon Server

Inala Broadcast was awarded an order for two (2) additional HD servers, one (1) SD server and the upgrade of the existing SD servers with additional ports and storage.

2011
South African Broadcasting Corporation (SABC) - Newsroom

Inala Broadcast together with our principal ENPS were awarded an order as a subcontractor to Questek /ATG to ENPS for the AP's world-leading newsroom computer system. SABC will deploy ENPS nationwide and across both TV and Radio – an installation which will encompass 15 sites in total.

Inala Broadcast will also act as ATG Project Manager for the South African implementation of the project.

This project is expected to be completed in December 2011.





2011

**South African Broadcasting Corporation (SABC) –
Final Control Centres (FCC)**

Inala Broadcast was awarded a turnkey contract for the implementation of four (4) FCC's. The project comprises of four (4) Miranda IS 750 playout platforms, Miranda (Omnibus) automation upgrade, Miranda modular products, Miranda Kaleido Multiviewer, Tektronix waveform monitors, TSL audio monitoring units, TSL Tally control system, TVLogic monitors, and Ultimate Chroma keyers.

This project is being implemented in a phased approach and is expected to be completed by January 2012.

2011

**South African Broadcasting Corporation (SABC) –
News Craft and Playout Server**

Inala Broadcast was awarded a contract for the implementation of a News Craft and Playout server system.

This turnkey project comprises of five (5) Miranda iTX IT based automation playout platforms, Miranda routing switcher, Omneon MediaGrid storage system, TVLogic monitors, Tektronix waveform monitors, TSL audio monitoring units, Amberfin ingest transcoders and four (4) Apple Final Cut Pro edit suits.

This project is expected to be completed by August 2011.

SERVICE AND SUPPORT CONTRACTS

SABC News Room

11 Years of Continued Support

In 1992, Inala Broadcast (as Broadcast Visions) supplied the complete iNEWS (formally NewsStar) Newsroom Computer System to the SABC. This comprises of 250 complete journalist workstations. For the past 11 years, Inala Broadcast has provided a yearly Service and Maintenance contract to the SABC for the system. This was renewed in 2006.

2010

M-Net

In 2010 Inala Broadcast signed a Service Level Agreement (SLA) with M-Net Media and Transmission Services to Service and Support their Omneon Server and MediaGrid system.

2011

SuperSport

In 2011 SuperSport extended the Omneon Service Level Agreement (SLA) for a further year, including the new and upgraded servers.





MEET THE TEAM

Colin Wainer (General Manager)

After qualifying as a Professional Technologist-Engineer, at the Technikon Witwatersrand (University of Johannesburg) in 1970, Colin started his career with Philips as a technician in the CCTV and Broadcast Video Division. He attained to the position of Divisional Sales Manager for the broadcast division.

In 1981, he joined Protea Technology as Divisional and Product Manager. This position was held until 1996 when he joined Inala Technology Investments as Managing Director of Broadcast Visions. During Inala Technologies (Pty) Ltd. BEE transaction, Colin became General Manager of Inala Broadcast a division of Inala Technologies (Pty) Ltd.

Antony Bijsters (Project Manager and Consulting Engineer)

Antony completed his T4 Electrical Engineering (Light Current) at Technikon Witwatersrand. He joined the SABC as trainee technician in 1984 where he gained technical experience in Radio production, Television production and transmission.

He joined Specitec in 1989 as technician, focussing on the range of equipment manufactured by the Dynatech Broadcast group of companies, which included NewStar, ColourGraphics and da Vinci Systems. A division: Professional Video Products was formed to manage these products when SABC purchased a NewStar news automation system in 1992.

Antony was responsible for the implementation and support of the NewStar system, and received extensive training, which included IT systems. This news system is in daily use and the service contract is still current. In 1996 Specitec joined the Inala group of companies and the Professional Products Division was merged with Inala Broadcast.

Anton van Staden (Consulting Engineer)

Anton joined the SABC in 1984 and completed his T4 Electrical Engineering (Light Current) through the Technikon Witwatersrand. He is registered as a Technician with the Engineering Council of South Africa. During his career, Anton has worked in the capacity of Senior Technician at SABC on their Video Editing systems. He was also appointed to the position of Technology Supervisor: Video Editing, Graphics and Titles while at the SABC.

In 1997, Anton left the SABC to run his own business providing a technical support service to broadcast companies, including SABC's Outside Broadcasting Unit (Airtime). Anton joined Inala Broadcast in 1999.

Leander Serrao (Project Engineer)

In 2004 Leander started with a one year in service training program offered by Kentron, where he was selected to complete the in-service training program at Kentron Technical Training. In 2005 he joined the South African Broadcasting Corporation Limited (SABC) Radio as a Studio Technician responsible for the maintenance on radio and music products.

In 2005 he transferred to South African Broadcasting Corporation (SABC) Airtime Outside Broadcasting facilities as a Broadcast Engineer with a promotion to an Assistant Technical Supervisor responsible for managing outside broadcast facilities. His duties were, managing rigs of outside broadcast equipment (SD, HD & Analogue), managing maintenance and repairs of broadcasting equipment, researching new developments in broadcasting technology, client liaison, quality control, technical upgrading and project management. Leander joined Inala Broadcast in January 2009.

Lecille Bailey (Sales and Marketing Co-ordinator)

Lecille is employed as Sales and Marketing Co-ordinator. She is responsible for the processing of orders, shipments, and deliveries to Inala Broadcast customers. Her work also includes the marketing functions of Inala broadcast, such as the compilation of Editorials and Advertisements for publication, launches, functions and exhibitions. Lecille joined Inala Broadcast in 2010.

Viwe Gantsho (Manager: Service and Support Engineer)

Viwe is employed as a Service and Support Manager dedicated to servicing and supporting the Inala Broadcast portfolio of products. Viwe experience has been working at the South African Broadcasting Corporation (SABC) Outside Broadcast Department, as a service and support technician. Through this medium he has gained an extensive experience in the broadcasting industry in the operation of broadcast facilities with first hand service and support experience of broadcast equipment in live situations. Viwe joined Inala Broadcast in 2008.

Zakariyah Shaikh (Service and Support Engineer)

Zak is employed as Support Engineer dedicated to servicing and supporting the Inala Broadcast portfolio of products. Zak experience has been working at the South African Broadcasting Corporation (SABC) News





Technology Department, as a service and support technician. Through this medium he has gained an extensive experience in the broadcasting industry in the operation of broadcast facilities with first hand service and support experience of broadcast equipment in live situations. Zak joined Inala Broadcast in 2010.

Sihle Mkhize

(Trainee Service and Support Engineer)

Sihle is employed as a Trainee Support Engineer dedicated to providing backup servicing and supporting

the Inala Broadcast portfolio of products. Sihle joined Inala Broadcast from Enkoka training school to gain experience in the broadcast industry. Working closely with the Inala Broadcast service and support team Sihle will gain extensive experience in the broadcasting industry.

Contact the team (Johannesburg):

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