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TRINITY BAPTIST CHURCH OASIS HOUSE



CROYDON, UK
EUROPE, MIDDLE EAST & AFRICA

The Trinity Baptist Church has expanded over the years due to its increased popularity. Its latest church - Oasis House - has been kitted out with a PA system by Axiom.

Trinity Baptist Church, originally founded 27 years ago by Pastor Kingsley Appiagyei, has grown over the years to encompass 13 branches, including seven in London, as well as in Italy, Norway, Denmark, and Ghana, with the number of followers worldwide now reaching several thousand.

Oasis House is the latest new-build Trinity Baptist church situated in Croydon. Converted from a large empty warehouse, the ultra-modern complex encompasses a 900-capacity auditorium and main worship space, a sports hall, a café, numerous meeting and training rooms, and children's play areas - and all are equipped with state-of-the-art audio and video communications systems.

The project has been patiently developed over a period of around seven years. Senior Pastor Appiagyei had a vision for a new, larger church and looked around for a suitable location. When the Croydon building became available he saw the



opportunity to bring more people in, especially young people, and began to put in place all that was needed to transform the cavernous warehouse into a church. The church initially approached Proel International to discuss the design of a distributed sound solution, and while there, Paolo Burocchi treated them to a demonstration of an Axiom compact line array. They were impressed, and subsequently submitted building plans to the design team at Proel's headquarters in Sant'Omero, Italy, for advice on putting together a sound system for the main auditorium.

Proel's Export Sales Engineer, Daniele Massaccesi prepared an EASE simulation and opted for a classic centre cluster arrangement with delayed front fills and floor-mounted subwoofers under the stage. "The shape of the room and the raked seating layout immediately suggested that a single centrally placed source would work well, providing a

stable image and optimal arrival times for the whole audience," he said. "A stereo configuration didn't really make sense since they wanted the choir setup to be flexible and the band is located on the floor at the left of the stage. The room has non-symmetrically placed round pillars, but they didn't really cause any problems with reflections. The main challenge was getting good coverage for the first few rows of seats, but we solved that well with a distributed solution of near-field front fills built into the stage and step risers." Paolo Burocchi put the church in touch with an installation company he had worked with before. Originally from Trinidad, Lagniappe (a Creole word from the Caribbean meaning 'a little bit extra') had been a Proel customer for many years, and had also done work for the church - providing monitors, cabling, configuring audio desks and so on - and were the ideal choice as overall system integrator for the project given



its considerable experience in systems networking. Its quote, amongst others from London-based installers, was duly accepted and Head Sound Engineer, Roddy Maharaj began the work of mapping out the church's technical requirements.

"We began in earnest with the first fix in April last year after modifying the spec slightly to accommodate some changes that they wanted," he explained. "The stage was enlarged so we needed to add one more front fill on each side, and the band position was relocated to the side of the room on the floor to allow for more flexibility for the choir on stage. We also discussed the possibility of left/right PA hangs instead of a centre hang so we went ahead and provided both options with steels in the roof at three positions."

The sound system for the main auditorium is based on Axiom AX2065P compact passive line arrays, a dual 6.5-inch two-way model with 110° horizontal coverage, and hung in two columns of four cabinets over the centre of the stage to cover the entire auditorium. These are supplemented with two pairs of SW215P dual 15-inch subwoofers located under the stage at left and right. ED23P passive

· *Left above*
The Cadac CDC eight takes care of mixing requirements

· *Left below*
The lobby area

· *Right*
The main auditorium

dual 3.5-inch front fills are built into the risers of the central steps, and ED25P passive dual five-inch front fills are fitted into the wrap-around wings of the wide stage. A total of 10 CX15A powered coaxial stage monitors can be cabled into any of 16 stage concealed stage box positions. At front of house, a Cadac CDC eight-32 full frame digital live sound console with dual 24-inch touch screens and 32 input faders mixes the 16 onstage mic channels and the multiple feeds from the live band at the side of the stage.

The main room's audio system is driven by three QC4.4 four-channel DSP amplifiers, and two QC2.4 two-channel DSP amplifiers, all networked with PRONET AX software and connected to a laptop up at the main desk, so that the speaker system can be monitored remotely and fine adjustments made as needed.

The distributed audio system has expanded to become a complex configuration that covers the entire building. "We started off with an eight-zone system, and realised very quickly that they needed a lot more, and actually we have ended up with a

total of 32 zones," said Roddy. The Proel communications system extends to cover a 300-capacity seating area behind glass at the rear of the main auditorium where audio can be relayed from the service; six first floor training rooms; nine ground floor training rooms; a crèche; children's play rooms; a café; the 500-capacity sports hall; the pastors' main suites and training rooms; the pastors' reception rooms; and the main lobby. Four MATRIX88 units form the heart of the system - centrally racked up alongside a SOURCE CD/MP3/FM tuner, an AMIX63 nine-channel mixer, five AUP4125S four-channel amplifiers, and four AUP4250S four-channel amplifiers. "The zoning allows for eight line inputs that you can choose from each of the rooms, and it also allows for a local input from each training room," said Roddy. "So as a training room does a presentation with a laptop on the main screen, they can send the signal through the matrix, which will then amplify it and send it back to the speakers in that room. Each room is controlled from that zone, so you can manage the zones individually or you can manage them from the matrix, which makes it very simple. A mic input ➤

FRANÇAIS

L'Église Réformée Baptiste de la Trinité fut fondée par le pasteur Kingsley Appiagyei en 1990 à Londres. Les représentants de l'église s'adressèrent d'abord à Proel International concernant la conception d'un système de sonorisation réparti. Lors de leurs échanges, Paolo Burocchi en profita pour faire une démonstration de la ligne source d'enceintes compactes Axiom. Par la suite, Paolo mit l'église en contact avec un installateur avec qui il avait travaillé auparavant. Originaire de Trinidad, Lagniappe était client chez Proel depuis de nombreuses années. Leur devis fut dûment accepté et Roddy Maharaj, l'ingénieur du son, commença la configuration des exigences techniques de l'église. Le système de sonorisation de la salle principale présente des colonnes d'enceintes passives Axiom AX2065P. Celles-ci sont complétées par deux paires de caissons de grave double SW215P de 38 cm situés à gauche et à droite, sous la scène. Les renforts de sonorisation passifs doubles ED23P de 7,6 cm sont intégrés aux marches centrales et les renforts de sonorisation passifs doubles ED25P de 12,7 cm sont installés dans les coulisses de la grande scène. Dix moniteurs de scène coaxiaux CX15A peuvent être branchés à l'une des 16 prises dissimulées partout sur la scène. À l'avant-scène se trouve une console numérique de production CDC 8-32 de chez Cadac. Le système audio de la pièce principale fonctionne avec trois amplificateurs QC4.4 à quatre canaux DSP et deux amplificateurs QC2.4 à deux canaux DSP, le tout branché en réseau sur le logiciel PRONET AX et connecté à un ordinateur portable placé sur le bureau principal.

DEUTSCH

Die ursprünglich 1990 in London von Pastor Kingsley Appiagyei gegründete Trinity Baptist Church wandte sich an Proel International, um das Design einer dezentralisierten Soundlösung zu besprechen und währenddessen rüstete Paolo Burocchi sie für eine Vorführung mit einer kompakten Axiom Line Array aus. Paolo brachte anschließend die Kirche in Kontakt mit einer Installationsfirma, mit der er bereits zusammengearbeitet hatte. Lagniappe stammt ursprünglich aus Trinidad und ist seit vielen Jahren Kunde von Proel. Ihr Angebot wurde ordnungsgemäß angenommen und der leitende Toningenieur Roddy Maharaj begann seine Arbeit, indem er die technischen Anforderungen der Kirche entwarf. Das Soundsystem für das Hauptauditorium basiert auf kompakte passive Axiom AX2065P Line Arrays. Diese werden ergänzt durch zwei Paar duale 15-Zoll SW215P Subwoofer, die sich unter der Bühne auf der linken und rechten Seite befinden. Passive duale 3.5-Zoll ED23P Frontfills wurden in die Setzstufen der zentralen Stufen eingebaut und passive duale 5-Zoll ED25P Frontfills wurden in die umgreifenden Flügel der breiten Bühne eingepasst. Zehn CX15A betriebene co-axiale Bühnenmonitore können mit jedem der 16 Bühnenverdeckten Bühnenboxpositionen verkabelt werden. Am Frontplatz eine digitale Cadac CDC acht-32 Full Frame Live Soundkonsole. Das Audiosystem des Hauptraums wird durch drei vierkanalige QC4.4 DSP Verstärker und zwei zweikanalige QC2.4 DSP Verstärker gesteuert. Sie sind jeweils mit der PRONET AX Software vernetzt und mit einem Laptop auf dem Hauptpult verbunden.

ITALIANO

La Trinity Baptist Church è stata originariamente fondata dal pastore Kingsley Appiagyei nel 1990 a Londra. Inizialmente la chiesa ha consultato Proel International per discutere della progettazione di una soluzione audio che fosse ben distribuita e Paolo Burocchi, prima gli ha fatto dimostrazione di un compact line array Axiom, poi ha messo in contatto la chiesa con un'azienda di installazione con la quale aveva lavorato prima. Originario di Trinidad, Lagniappe era da molti anni un cliente Proel ed il loro preventivo è stato debitamente accettato, così il capo ingegnere del suono Roddy Maharaj ha iniziato il lavoro di mappatura dei requisiti tecnici della chiesa. Il sistema audio per l'auditorium principale si basa su dei compact line array passivi Axiom AX2065P che sono integrati da due coppie di subwoofer SW215P dual da 15 pollici situati a sinistra e a destra sotto il palco. I riempimenti frontali ED23P dual da 3,5 pollici sono incorporati nelle riserte dei gradini centrali e i riempimenti frontali ED25P dual da 5 pollici sono montati nelle ali che avvolgono l'ampio palco. Inoltre, sono stati utilizzati dieci monitor da palco coassiali CX15A che possono essere cablati in una qualsiasi delle 16 scatole nascoste sul palco. Di fronte, è stato posizionato anche un mixer digitale full frame Cadac CDC eight-32, mentre il sistema audio della sala principale è guidato da tre amplificatori DS4 a quattro canali QC4.4 e due amplificatori DSP a due canali QC2.4, tutti collegati in rete con il software PRONET AX e collegati ad un portatile del bancone principale.

ESPAÑOL

La Iglesia Bautista Trinity, que fue fundada originalmente por el Pastor Kingsley Appiagyei en 1990 en Londres, en el comienzo acercó a Proel International para discutir acerca del diseño de una solución de sonido distribuido. Mientras Paolo Burocchi, los invitaba a una demostración de una formación en línea compacta de Axiom. Posteriormente Paolo puso a la iglesia en contacto con una empresa de instalación con la cual él había trabajado con anterioridad. Originalmente de Trinidad, Lagniappe había sido cliente de Proel durante muchos años. Su presupuesto fue debidamente aceptado y el Ingeniero de Sonido a cargo, Roddy Maharaj comenzó el trabajo de esquematizar los requerimientos técnicos de la iglesia. El sistema de sonido para el auditorio principal está basado en una compacta formación en línea pasiva Axiom AX2065P. Estas se complementan con dos pares de subwoofers duales SW215P de 15 pulgadas ubicados debajo del escenario a izquierda y derecha. El sistema de altavoces frontal ED23P dual pasivo de 3,5 pulgadas están fijados en las alas envolventes del amplio escenario. Hay 10 monitores CX15A coaxiales potenciados que pueden cablearse en cualquiera de las 16 posiciones ocultas del escenario. En el frente, se encuentra una consola digital de sonido en vivo de cuadro completo Cadac CDC eight-32. El sistema de audio del salón principal es manejado por tres amplificadores QC4.4 DSP de cuatro canales y dos amplificadores QC2.4 DSP de dos canales. Todo ello armado con software PRONET AX y conectado a una laptop al escritorio principal.



is provided on the reception desk, so that main reception can page any one of the 32 zones individually, or page the entire building, and in each zone they can also connect their own local mic or CD player.”

Proel ceiling speakers feature prominently throughout the installation. XE51CT five-inch full range models are used for the majority of the small training rooms and the main lobby area, and for the café and the auditorium's overspill areas CS30HFT 6.5-inch two-way ceiling speakers provide wider frequency response and higher output to reflect the energy of the musical content of a service. Joseph Arthur is the chief sound engineer at Oasis House. “When Paolo showed us the Axiom line array and we listened to

it, we knew straight away that was what we wanted,” he said. “The sound was very clear, and we thought it would be very suitable for our musically-orientated services. Now that the system is installed and commissioned - the guys came down from Italy to set up the software and fine tune it - the clarity of speech is excellent, everyone can hear clearly, and there is more than enough bass for the live music program.

“For a modestly sized system it's certainly loud enough, and it reaches easily up to the back of the main room. We are extremely pleased with the result, and we are already looking at developing further projects both here in London and abroad.”

TECHNICAL INFORMATION

SOUND

8 x Axiom AX2065P compact passive line array cabinet; 4 x Axiom SW215P subwoofer; Axiom ED23P front fill loudspeakers; Axiom ED25P front fill loudspeakers; 10 x Axiom CX15A powered coaxial stage monitor; 1 x Cadac CDC eight-32 full frame digital live sound console; 3 x Axiom QC4.4 four-channel DSP amplifier; 2 x Axiom QC2.4 two-channel DSP amplifier; 1 x Axiom PRONET AX software package; 4 x Proel MATRIX88 unit; 1 x Proel SOURCE CD/MP3/FM tuner; 1 x Proel AMIX63 nine-channel mixer; 5 x Proel AUP4125S four-channel amplifier; 4 x Proel AUP4250S four-channel amplifier; Proel XE51CT ceiling speakers; Proel CS30HFT ceiling speakers

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