

## AUTOMATION SYSTEM REFERENCES Updated to March 16th 2009

### 1. INTERNATIONAL REFERENCES

#### ANGOLA

##### **RNA RADIO NACIONAL DE ANGOLA (2006-2008)**

###### Integral managing system for Radio Station

Includes the services of: automation of the emission, news, sound storage area, discotheque, recording of the emission and copy, with the following characteristics:

- Separation of the transmission and news network of the current office and Internet network, and strict security policies for the safety of the system..
- 24 digital studios with a computer in the CTA, to generate the audio signal using the MAR4WIN application, and other one for the studio, in which the reception of news in real time can be controlled using MAR4NEWS and the reading of the news selected using the teleprompter application MAR4STUDIO. There are in addition 10 available studios for production purposes.
- 85 working stations are connected in network with specific functions to access to the historical file, transfer between Centers of Production and the application MAR4WIN, special centers for monitoring, centers of audio reproduction, storage of music, advertising, extraction of On-Air's programming and reproduction to DVD format, and generation and distribution of Internet channel.
- 11 regional centers of small dimension but with similar technical and functional characteristics
- 10 local centers provided with individual working stations.
- The complete project has HP hardware: 16 servers of the central station are ML350 model configured as a RAID 10, except the cluster of the principal server that is configured by two units DL380, with a cabin of discs MSA 500 G2 in RAID 10. The working stations of the journalist area are DC7600 and the emission units are XW4300. All the On Air's working stations have double screen. The elements of the network are HP Procurve and the printers are 4250 and 2300 L.

**RADIO ECCLESIA.** Automation of 16 territorial stations for Radio Ecclesia's "Baby Ecclesias" (2002 / 2003).

**RADIO ECCLESIA.** Automation for five workstations in the Radio Ecclesia Central Station in Luanda. (2001).

## **ARGENTINA**

**RADIO SUR ( 1998)** at Rio Gallegos (Argentina). MAR4Win system with two workstations.

### **LV3, CORBOBA, ( 1999)**

**MAR4Win** network for news, TWO SERVERS Novell SFT 3 , complementary to Marsystem in service y composed by:

- Mar4news Server.
- Mar4 cont Server.
- Two multimedia workstations for journalists provided with Mar4win, Mar4news and Mar4remote.
- Two workstations for emission of multimedia news provided with Mar4win, Mar4news.

## **BARBADOS**

**Gil Risoto** : MAR4Win system of one workstation for Barbados **(2002)**.

## **BELIZE**

**MAR4Win** system for the Radio University Studio **(2002)**.

## **BRASIL**

**Rede ITAITAIA (2001)**: MAR4Win network of 5 workstations and 2 workstations with Mar4cont/ Mar4Mark, with 4 audio editors and 2 programming workstations.

**Apoio Tecnico (1999)**: MAR4Win system of one workstation for small radio station in Brazil.

## **CHILE**

**INTERVIDEO (1999)**: MAR4Win system of one workstation for small radio station in Chile.

## **COLOMBIA**

**Comunidades Indigenas (2000)** 7 MAR4Win systems of one workstation with audio editor Mar4 edit for small rural radio stations

**IRADIO (1999)** 1 MAR4Win system of one workstation with audio editor Mar4 edit for a small radio station in Colombia.

## COSTA RICA

Automation of the radio stations:

**Radio Universidad de Costa Rica ( 2001).** 2 On Air workstations, one for programming, edition and CD ripping.

**Radio Reloj, Grupo Reloj ( 2000).** 2 On Air and Edition workstations, one at booth and two movable.

**Sociedad Periodística Extra Ltda. ( 2000).** 3 On Air – Edition workstations, 4 programming, 1 remote chronicle and 1 programming and CD ripping.

**Radio Nacion GRUPO LATINO DE RADIO , GLR ( 2000)** MAR4Win system composed by:

- Five On Air and Recording workstations, with Mar4win, one of them with multitrack audio editor.
- Three programming and traffic workstations with Mar4schedule

**Sonido 101. ( 2001).** 1 On Air workstation and 1 CD ripping workstation

**Radio Faro del Caribe (2001).** 1 On Air workstation and 1 multitrack Edition and programming.

**Radio Sendas de Vida (2001).** 1 On Air workstation

## CUBA

**Instituto Cubano para la Radio y la Televisión ( ICRT) ( 2000-2001)**

For the Public Broadcasting Network.

88 licenses of Mar4win automation system.

38 licenses of graphic editor.

33 licenses of multitrack audio editor.

## GUATEMALA

**INRESA ( 2000)** One MAR4Win system for small radio station.

## HUNGARY

**Radio 17, Budapest,** Marwin automation system for 24x7 broadcasting

**Colegio Athene, Budapest,** educational Mar4win automation system

**Digipro ( 2000)** Two MAR4Win systems of one workstation

## **INDIA**

**INDIAN INSTITUTE FOR MASS COMMUNICATION\_( 2001).** 1 education workstation.

## **MOROCCO**

**Radio TANGER (2006),** complete Mar4 automation system for broadcasting and production, in all its facilities including two studios, one CTA and associated journalist area.

**RTM: (2003):** Two transmission, production and editorial Networks comprising more than 10 workstations each, for the regional radio stations in Agadir and Oujda. Applications were translated to Arabic

**RTM : ( 2001):** Three MAR4Win systems for the Weather Change Summit at Marrakech, Morocco.

## **MEXICO**

**Grupo 10 (1998):** Two MAR4Win systems of one workstation for small radio station in Mexico.

**NUCLEO ORO RADIO, VERACRUZ, (1998):** MAR4Win systems with 6 Mar4win workstations, 2 workstations with audio editor, 2 programming workstations with Mar4schedule and one workstation at the studio room with Mar4studio.

**NUCLEO ORO RADIO, VISTA HERMOSA, (2001):** MAR4Win systems with 4 Mar4win workstations, 1 workstations with audio editor, 1 programming workstations with Mar4schedule

**INFORED, MEXICO DF, (1999 )**System MAR4Win System for BROADCASTING, COUPLE OF SERVERS NETFINITY CLUSTER CONFIGURATION & Network of 70 workstations and servers:

- Mar4news Server.
- Two Mar4 cont servers.
- Mar4remote workstation for automatic recording of news.
- Six workstations provided with Mar4news & Mar4 studio.
- Eight workstations provided with Mar4win.
- Fifteen workstations provided with Mar4schedule, Mar4news, Mar4cont & Mar4mark.
- One workstation provided with Mar4schedule & Mar4news.

- Two workstations provided with Mar4win, Mar4news, Mar4cont & Mar4mark.
- Five workstations provided with Mar4Xtrack.
- Two workstations provided with Mar4win, Mar4 cont & Mar4mark.
- One workstation provided with Mar4win, Mar4 cont , Mar4mark & Mar4edit.
- Five workstations provided with Mar4win & Mar4edit.
- One workstation provided with Mar4win, Mar4news & Mar4edit.
- Three workstations provided with Mar4news, Mar4cont & Mar4mark.
- Nineteen workstations provided with Mar4news.
- One workstation provided with Mar4win, Mar4news, Mar4cont, Mar4Mark, Mar4studio & Mar4edit.

### **GRUPO RADIO CENTRO, MEXICO DF (2000)**

One System of REMOTE RECORDING COMPOSED BY:

- Two On Air and Recording workstations wit Mar4win and Mar4edit.
- One workstation for automatic recording of chronicles with Mar4remote.

### **UNIVERSIDAD DEL GOBIERNO DEL ESTADO DE HIDALGO (2001).**

Educational system MAR4Win, with 4 workstations recording/On Air.

**Grupo 10 (2008-2009):** 7 MAR4Win workstations for several radio stations in Mexico including Radio Centro.

## **PARAGUAY**

**INFORMÁTICA EMPRESARIAL( 2000) :** Two systems MAR4Win of one workstation for a small radio station in Paraguay.

Automation Network for **Radio Cáritas** ( 2001).

## **PORTUGAL**

**RADIO RENACENÇA (2008) , Oporto:** Installation, update and start-up supervision of the previous Mar4W network moved to the new company facilities.

**Universidade do Algarbe, Faro (Portugal), (2004),** Mar4win educational system

**RADIO RENACENÇA (2004) , Lisbon and Oporto:** Expansion of the existing networks to cover all the facets of production and transmission

- In Lisbon, four transmission workstations were created, as well as nine recording workstations, 31 editing workstations, an audio and news server in RAID, and a continuity server.
- In Oporto, two transmission workstations were created, as well as two recording stations, 14 editing stations, an audio and news server in RAID, and a continuity server.

**RADIO RENACENCA (2007).** Mar4system enlargement Mar4 with two new workstations. Including Mar4Cont.

**RADIO RENACENÇA ( 1999-2000) , Porto, Braga & Lisboa:** Networks of four and two Mar4win workstations.

**RADIODIFUÇAO PORTUGUESA (RDP) –** for its program production center in **Lisbon (2004).** Sound file application suited to RDP's needs

**RADIODIFUÇAO PORTUGUESA (2003),** for its program production center in **Lisbon**

- Expansion of the existing system to accommodate the transmission of Antena 1 and Informação (news) programs, as well as the editing tasks: 12 transmission and production stations, 13 production stations for reporters, continuous eight-channel recording and broadcasting through the network.

**RADIODIFUÇAO PORTUGUESA ( RDP )** for the Programs Production Center at **Lisbon (2000-2001)**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 800 hours of audio.
- 5 workstations for continuity emission with software MAR4Win and double control.
- 2 workstations for continuity emission with software MAR4Win
- 13 production workstations with software MAR4Win & Mar4Multitrack
- 2 programming workstations for publicity and archiving, with Mar4autolist, Mar4 Dac, Mar4win and link with file application.
- Develop of DAB Emission System with associated data, associated data to RDS, link to Disco Application and Emission System adapted to blind personnel.

**RADIODIFUÇAO PORTUGUESA ( RDP ) (2000-2001)** for the Programs Production Center at **Porto:**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 140 hours of audio.
- 3 workstations for continuity emission with software MAR4Win and double control
- 1 workstation for continuity emission with software MAR4Win
- 4 production workstations with software MAR4Win & Mar4Multitrack
- 1 programming workstation for publicity and archiving, with Mar4Autolist, Mar4Dac, Mar4Win and link with file application.

**RADIODIFUÇAO PORTUGUESA ( RDP ) (2000-2001)** for Program Production Center at **Faro:**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 140 hours of audio.
- 2 workstations for continuity emission with software MAR4Win and double control.
- 1 workstation for continuity emission with software MAR4Win

- 3 production workstations with software MAR4Win & Mar4Multitrack
- 1 programming workstation for publicity and archiving, with Mar4Autolist, Mar4Dac, Mar4Win and link with file application.

**RADIODIFUSÃO PORTUGUESA ( RDP ) (2000-2001) for Program Production Center at Coimbra :**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 140 hours of audio.
- 2 workstations for continuity emission with software MAR4Win and double control.
- 1 workstation for continuity emission with software MAR4Win
- 3 production workstations with software MAR4Win & Mar4Multitrack
- 1 programming workstation for publicity and archiving, with Mar4Autolist, Mar4Dac, Mar4Win and link with file application.

**RADIODIFUSÃO PORTUGUESA ( RDP ) (2000-2001) for Program Production Centre at Azores :**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 300 hours of audio.
- 4 workstations for continuity emission with software MAR4Win and double control.
- 6 production workstations with software MAR4Win & Mar4Multitrack.
- 1 programming workstation for publicity and archiving, with Mar4autolist, Mar4dac, Mar4win and link with file application.

**RADIODIFUSÃO PORTUGUESA ( RDP ) (2000-2001) for Program Production Centre at Madeira:**

- Main server, composed by two servers, Recovery Server Compaq with Array of Raid 5 for 300 hours of audio.
- 3 workstations for continuity emission with software MAR4Win and double control.
- 2 workstations for continuity emission with software MAR4Win
- 5 production workstations with software MAR4Win & Mar4Multitrack.
- programming workstations for publicity and archiving, with Mar4Autolist, Mar4Dac, Mar4Win and link with file application.

**RADIODIFUSÃO PORTUGUESA ( RDP ) (2000-2001) for Program Production Centre at Horta :**

- 1 workstations for continuity emission with redundant drivers and software MAR4Win and communications through ISDN, Mar4Autolist, Mar4Dac, Mar4Win and link with file application

**RADIODIFUSÃO PORTUGUESA ( RDP ) (2000-2001) ) for Program Production Centre at Angra do Heroísmo :**

- 1 workstations for continuity emission with redundant drivers and software MAR4Win and communications through ISDN, Mar4autolist, Mar4Dac, Mar4win and link with file application.

**CENJOR (Centro Protocolar de Formação Profissional para Jornalistas) (1997-1998)**

Installation of servers in configuration of high disposability  
(option of unattended recovery and automatic commutation of redundant storage RAID5)  
14 workstations MAR4Win, 12 Mar4edit, 2 Mar4multitrack & 1 Mar4 remote for Emission & Redaction.

**UNIVERSIDADE AUTÓNOMA DE LISBOA (1997-1998)** Installation & consulting for configuration of the application MAR4Win as well in the server as in 7 workstations.  
Other Automations.

**DOMINICAN REPUBLIC**

**RADIO ENRIQUILLO, Barahona (2002):** MAR4Win System for transmission and complementary editing and management applications

**EAST TIMOR 2002/2004**

**Mar4Win in use at the National Radio Broadcasting Authority in Dili and Baucau**

**URUGUAY**

**RADIO EL ESPECTADOR , MONTEVIDEO, ( 1999):** MAR4Win system for RADIO-BROADCASTING composed by:

- Three On Air and recording workstations provided with Mar4Win.
- One On Air and recording workstation provided with Mar4Win and Mar4Multitrack.
- Three programming workstations provided wit Mar4Autolist.

**USA**

**Radio Cadena Nacional (RCN) de Colombia,( 1999)** Miami office: MAR4Win system of one workstation.

**VENEZUELA**

**HERCASA (2008)** One MAR4Win system for small radio station.

**HERCASA (2007)** One educational MAR4Win workstation.

**HERCASA (2000) One MAR4Win system for small radio station.**

## **2 MAR4 AUTOMATION SYSTEM: REFERENCES FROM SPAIN**

### **CADENA COPE (2009)**

- Enlargement of Mar4Win automation system for ONAIR and production. 8 new workstations with two audio boards each.

### **RADIO PREMIA DEL MAR (2009)**

- Mar4Win automation system for ONAIR and production. 1 workstation.

### **CADENA COPE (2009)**

- Enlargement of Mar4Win automation system for ONAIR and production. 9 new workstations with two audio boards each.

### **CUBELLAS CITY HALL RADIO (2009)**

- Mar4Win automation system for ONAIR and production. 1 workstation in studio over AEQ BC500 audio console.

### **CEES (2009)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 1 new workstation.

### **RNE (2008)**

- Update of Mar4Win automation system for ONAIR and production. 75 workstations.

### **MILITARY INTELLIGENCE SERVICE (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 1 portable new workstation.

### **ADDI TELECOM (2008)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 1 new workstation.

### **CADENA COPE (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 4 new workstations with two audio boards each.

### **CANAL SUR TV (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation in studio.

### **ONDA CERO (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 2 new workstations with two audio boards each.

### **COM RADIO (2008)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 1 new workstation over laptop.

### **ONDA CERO RIOJA (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation in studio over AEQ ARENA audio console.

### **RADIO BACAU (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation.

### **TELECINCO TV (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 9 new SW licences.

### **CADENA COPE (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 8 new workstations with two audio boards each.

### **RADIO ONA (2008)**

- Mar4Win automation system for ONAIR and production. 1 central server and 4 workstations.

### **RNE (2008)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 20 workstations over laptop.

### **REY JUAN CALROS I UNIVERSITY (2008)**

- Mar4Win automation system for ONAIR and production. 2 workstations in two independent studios over AEQ BC500 audio console.

### **RADIO SABADELL (2008)**

- Mar4Win automation system for ONAIR and production. 4 workstations.

### **RADIO EL DIA (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation with 2 professional audio boards installed.

### **RADIO CONCETAIN (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation.

### **RNE (2008)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 50 workstations.

### **ULTIMA HORA RADIO CIUDADELLA (2008)**

- Enlargement and update of Mar4Win automation system for ONAIR and production. 2 workstations in two independent radio studios over AEQ BC500 and BC300 audio console.

### **RADIO AUTONOMICA DE CANARIAS, GRAN CANARIA (2008)**

Inside the renovation of the complete facilities of the Autonomous Radio of the Canary Isles, which consists of two two-headed control/studios, 1 self-control studio, 2 production cabins and a central completely automated control, AEQ has supplied the following equipment of Mar4 Automation System for Emission and Production

- 1 central system server.
- 1 central data manager server.
- 1 News central server, including additional FTP Server for remote connections and file transfer.
- 1 continuity server.
- 1 Log server, including Mar4Files application
- 2 Mar4Win Workstation in two production cabins
- 6 Mar4 workstations in journalist area, including each one Mar4News application for reception and operation over news form news agencies and Mar4Track like audio editor software.
- Additional laptop includes, for mobile applications.

Exactly the same system will be supplied for the facilities in Tenerife.

### **RADIO OBRADOIRO (2008)**

- Mar4Win automation system for ONAIR and production. 3 workstations

### **RADIO MUNICIPAL AYUNTAMIENTO MATARO(2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **ONDA SALERA (2008)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **RADIO MUNICIPAL MINGLANILLA (2008)**

- Mar4Win automation system for ONAIR and production. Central server includes

### **CASA ENCENDIDA , MADRID (2008)**

- Mar4Win automation system for ONAIR and production. Includes 4 workstations and two central servers.

### **LA CALA RADIO (2008)**

- Mar4Win automation system for ONAIR and production. Includes 2 workstations and central server.

### **ONDA LUZ MALAGA (2008)**

Mar4Win automation system for ONAIR and production, for its new facilities that includes two studios, one voice booth, one CTA and two cabins. Including:

- 1 control workstation
- 2 studio workstations, and additional Workstation in voice booth (prompter option included)
- 1 journalist workstation.
- 1 cabin workstation

### **RADIO MUNICIPAL PUERTOLLANO (2008)**

- Mar4Win automation system for ONAIR and production. IMAR4Cont and Recording included.

### **UNIVERSIDAD FRANCISCO DE VITORIA**

- Mar4Win automation system for ONAIR and production. Mar4track editor included. 6 workstations.

### **MIORMISA- PUNTO RADIO ALICANTE (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 1 workstation including Mar4Traffic, Edit, Cont and Mark

### **IB3 (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 6 workstations.

### **CADENA COPE (2008)**

- Enlargement of Mar4Win automation system for ONAIR and production. 3 new workstations

### **RNE (2008)**

- Upgrade of Mar4Win automation system for ONAIR and production

### **AGENCIA EFE, MADRID (2008)**

- Mar4Win automation system for ONAIR and production. 3 Workbench stations.

### **RADIO INFANTES (2007)**

- Mar4Win automation system for ONAIR and production

### **CEU VALENCIA (2007)**

- Mar4Win automation system for ONAIR and production

### **RADIO MUNICIPAL AYUNTAMIENTO TIAS LANZAROTE (2007)**

- Mar4Win automation system for ONAIR and production, in its facilities that include one studio, one recording cabin. 3 workstations in the same network.

### **RADIO MANCHUELA (2007)**

- Enlargement of Mar4Win automation system for ONAIR and production. 1 new workstation

### **ULTIMA HORA RADIO PALMA MALLORCA (2007)**

- Update of Mar4Win automation system for ONAIR and production. 7 new workstations

### **UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (2007)**

- Enlargement of Mar4Win automation system for ONAIR and production.

### **UNIVERSIDAD CARLOS III (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation.

### **MIORMISA- PUNTO RADIO ALICANTE (2007)**

- Mar4Win automation system for ONAIR and production

### **RADIO MARCA LEON (2007)**

- Mar4Win automation system for ONAIR and production in its facilities with two studios and one CTA. .

### **ONDA JAEN (2007)**

- Mar4Win automation system for ONAIR and production

### **ONDA BIERZO (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation.

### **PERIODISTA DIGITAL MADRID (2007)**

- Mar4Win automation system for ONAIR and production. 2 workstations

### **PREMIA DE MAR RADIO (2007)**

- Update of Mar4Win automation system for ONAIR and production. One new workstation.

### **AYUNTAMIENTO DE RUBI (2007)**

- Update of Mar4Win automation system for ONAIR and production.

### **RADIO MUNICIPAL CALPE (2007)**

- Mar4Win automation system for ONAIR and production Includes one server and several workstations.

### **AGENCIA EMPLEO MADRID (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **UNIVERSIDAD DE GRANADA (2007)**

- Mar4Win automation system for ONAIR and production. 1 educational workstation.

### **ONDA CADIZ (2007)**

- Mar4Win automation system for ONAIR and production, in its facilities that include 3 complete Studio controls, one Studio and one CTA like central node.

-

### **RADIO EL PRAT (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **COPE MADRID (2007)**

- Enlargement of Mar4Win automation system for ONAIR and production. 11 new workstations

### **ONA MALLORCA (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

-

### **EMCO (2007)**

- Mar4Win automation system for ONAIR and production. 2 workstations

### **COPE LA PALMA (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **GST (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **RADIO EL DIA (2007)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **RADIO ALTAFALLA (2007)**

- Enlargement of Mar4Win automation system for ONAIR and production. 2 workstations

### **RADIO JUMILLA (2007)**

- Mar4Win automation system for ONAIR and production. 2 workstations in the same studio

### **UNIVERSIDAD NAVARRA (2007)**

- Update of Mar4Win automation system for ONAIR and production. 5 workstations.

### **RADIO MUNICIPAL DE MATARO (2006)**

- Mar4Win automation system for ONAIR and production

### **RADIO MUNICIPAL DE ALMERIA (2006)**

- Mar4Win automation system for ONAIR and production

### **CANAL SUR SEVILLA (2006)**

- Mar4Win automation system for ONAIR and production. 1 workstation

### **CEU VALENCIA (2006)**

- Mar4Win automation system for ONAIR and production

### **RADIO MINGLANILLA (2006)**

- Mar4Win automation system for ONAIR and production. One new workstation

### **ONDA CADIZ (2006)**

- Mar4Win automation system for ONAIR and production, in its facilities that includes four workstations in the same network with a dedicated central server.

### **AYUNTAMIENTO DE ADRA (2006)**

- Mar4Win automation system for ONAIR and production

### **IB3 (RADIOTELEVISION DE LAS ISLAS BALEARES)( 2006)**

Inside its new facilities that includes four studios production of programs, with production cabins and associated journalist zone, AEQ has supplied Mar4 automation system for Emission and Production, 15 independent workstations in the same network with a central server.

### **RNE BARCELONA (2005)**

- Mar4Win automation system for ONAIR and production

### **SER BARCELONA (2005)**

- A Mar4Win automation system for ONAIR and production

### **RADIO OBRADOIRO (2005)**

- Mar4Win automation system for ONAIR and production

### **RADIO SURCO CASTILLA LA MANCHA (2005)**

- Mar4Win automation system for ONAIR and production in four different facilities and all the studios.

### **PUNTO RADIO LANZAROTE (2005)**

- Mar4Win automation system for ONAIR and production

### **TENERIFE RADIO EL DIA (2005)**

- Mar4Win automation system for ONAIR and production

### **UNIVERSIDAD DE SALAMANCA (2005)**

- Mar4Win automation system for ONAIR and production.

### **RADIO BREMEN, La Gomera (2004).**

- Mar4Win Automation being used for transmission and production

### **CATALUNYA RADIO (2003).**

- Automation of multimedia production and broadcasting in DAB (Digital Audio Broadcasting) based on MarWin / Mar4 DAB

### **CANAL NOU TELEVISIÓN, VALENCIA (2004).**

- Automation of TV audio transmission using MarWin

### **TELE 5 TELEVISIÓN, MADRID (2003 / 2004).**

- Automation of TV audio transmission with MarWin

### **RADIO EL CORREO, LOGROÑO (2003).**

- MarWin being used for automation for transmission and production

### **ONDA CERO RADIO,**

**(YEAR 2001-2002)**

**Transformation and expansion of the Automation System of the network of radio stations** with the supply of MAR4Win, MAR4Autoloader with telecommand through the

LAN, MAR4News, MAR4Cont, Mar4Mark, Mar4Edit, Mar4DAB, Mar4Remote, link with Management and web site.

Installation of more than 80 stations with aprox. 250 workstations for On Air, Edition & Telecommand, redaction, Programming & others

Alcala de Henares, Alcira, Alcazar, Alicante, Altea, Antequera, Aranjuez, Archena, Badajoz, Bilbao, C. Real, Cáceres, Cádiz, Cangas, Cartagena, Castellón, Colmenar, Córdoba, Coslada, Cuenca, Elche, Gijón, Granada, Guadalajara, Huelva, Infiesto, Jaén, Jaraiz, Jeréz, Leganés, Leon, Logroño, Lora del Río, Luarca, Málaga, Marbella, Mérida, Montilla, Moratalla, Motril, Orihuela, Oviedo, Palencia, Pamplona, Plasencia, Priego, Puente Genil, Salamanca, San Sebastián, Santander, Segovia, Sevilla, Torreveja, Valdepeñas, Valladolid, Vitoria, Zamora, Zaragoza. Alcalá la Real, Algeciras, Almería, Almuñecar, Baza, Ceuta, Cullera, El Ejido, Estella, Huesca, Ibiza, Madrid, Mahón, Murcia, Navalcarnero, P. Mallorca, Roquetas, Sa Pobra, Sagunto, Talavera, Teruel, Toledo, Valencia, Villajoyosa, Yecla

#### **RADIO NACIONAL DE ESPAÑA,** **(2002-2003-2004)**

- **For expansion of the system at the Casa de la Radio (The “Radio House”) including its 70 territorial centers, correspondents’ offices and external departments,** installation of up to 1,500 workstations running Mar4win, Mar4cont, Mar4mark, Mar4news, Mar4mail, Mar4edit and the required Servers and WAN connection.

#### **RADIO NACIONAL DE ESPAÑA,** **(YEAR 2000-2001)**

- **Expansion of the system on service at Casa de la Radio and its 70 Territorial Centres, Corresponsals and External services.**

Contract for the purchase of licenses of use and professional audio boards for at least 450 workstations provided with Mar4win, Mar4cont, Mar4mark, Mar4news, Mar4mail, Mar4edit and the necessary servers.

Project for the Development of specific applications of: new On Air machine, simplified audio editor of high productivity, system to access databases based on Midas Technology.

#### **RADIO NACIONAL DE ESPAÑA, SECRETARIA DE ESTADO DE COMUNICACIONES Y TELEFONICA SERVICIOS AUDIOVISUALES (YEAR 2000).**

Development of the DAB broadcasting, concept and set up of a Digital Studio DAB, with adaptation of MAR4Win to the Digital Radio Broadcasting with definition and generation of the different kinds of data associated to the program (FPAD & XPAD).

### **RADIO NACIONAL DE ESPAÑA (RNE) Expansion of the network in Madrid to approximately. 250 workstations.(YEAR 1999)**

For the Programs Production Center at Casa de la Radio, Madrid, to Radio 1, Radio 2, Radio 3 & Radio Exterior de España :

- Main Servers, with 2 redundant Servers Cluster NT Compaq with 2 Arrays of discs Raid 5 and fiber optical hub, join to the workstations by 1 switch and 1 hub of 24 ins each.
- Clients of text news Mar4news
- Audio Server in a Network for redaction with continuity recording and remote edition for 8 channels.
- Server for automatic recording of chronicles
- Server and 2 remote positions for remote access to networks
- 34 positions for On Air and production software MAR4Win
- 6 positions for On Air software MAR4Win
- 12 positions for editing news software MAR4Win y MAR4News
- 23 positions for advanced redaction of news soft MAR4Win y MAR4News

### **RNE Expansion of the network in Madrid to approximately. 250 workstations. (YEAR 1998)**

For the Programs Production Center at Casa de la Radio, Madrid, to Radio 5 *todo noticias*, (Radio 5 is a news dedicated radio station).

- Main Servers, with 2 redundant Servers Cluster NT Compaq with 2 Arrays of discs Raid 5 and fiber optical hub, join to the workstations by 1 switch and 1 hub of 24 ins each.
- Text News Server Mar4News feed from 12 agencies.
- Audio Server in a Network for redaction with continuity recording and remote edition for 8 channels.
- 3 On Air and Production workstations with software MAR4Win
- 3 Studios with software MAR4Win
- 15 workstations for redaction with software MAR4Win & Mar4news
- 5 workstations for advance redaction with software MAR4Win & Mar4news

### **Cadena COPE & Cadena 100. (Years 1997-2002)**

Transformation and expansion of the whole automation system and the network with MAR 4 Win, Mar4 autoloader with Telecommand type COPE, Mar4 News, Mar4Cont, Mar4MarK, Mar4 EDIT, Mar4 Mail. Installation of 100 radio stations with 240 workstations for On air, audio edition and telecommand.

Installed, among others, the terminals at:

Madrid, Valladolid, Avila, Toledo ,Cartagena, Logroño, Alcañiz, Monzón, Vinaroz, Denia, Calatayud, Valencia ,Guadalajara, Lugo, Teruel, Siguenza, Menorca, Alcalá de Henares, Villalba, Lalín, Noia, Rivadavia, Palencia, Lanzarote, Vilafranca, Bilbao, Bailén, Gerona,

Soria, Benavente, Segovia, Ágreda, Ciudad Rodrigo, Aguilas, Huesca, Cadiz, Villablino, El Espinar, Mérida, Estepa, Alfaro, Tordesillas.

**TELEMADRID RADIO (2001): MAR4Win System for RADIOBROADCASTING** composed by:

- Redundant Server of Mar4win
- 12 workstations for On Air, production and audio edition.

**RADIO LA FARGA, HOSPITALET DE LLOBREGAT (2000): MAR4Win system for Broadcasting** with:

- Mar4news Server
- Continuity recording system composed by one workstation with Mar4Cont server, client Mar4Mark.
- 13 journalist sets with Mar4News
- 6 editing and recording workstations with Mar4Win and Mar4Edit,
- 2 workstation studio with Mar4Studio.

**AGENCIA EFE, MADRID (1999): MAR4Win System for Broadcasting and edition of news** through Internet, on a pair of Cluster Vinca servers with:

- Mar4news server
- Mar4cont server
- Remote access software Mar4Remote, allowing the users to remotely record Audio
- 14 multimedia journalist sets with Mar4win, Mar4News, Mar4Cont and Mar4Mark
- 7 recording and editing workstations with Mar4Win, Mar4Edit, Mar4Mark and Mar4Cont.
- 2 studio sets with Mar4Studio.
- Automatic Music Programming with Mar4autolist.
- Link to export data & files to web site.