Implementation of Next Gen. Voice Over IP Comm systems, functionality and features over an Air Traffic Service Ground Network

HOLIDAY INN–PARCO DEI -EUR -ROME, ITALY

JSP Teleconsultancy will be presenting its popular course at the Holiday Inn Parco Dei Medici, in Rome, Italy allowing the participants to undergo training in the next generation VoIP interfaces for Air Traffic Control Voice Communication Systems, Radios, Voice Recorders and IP networks while experiencing the historic buildings, monuments and the fabulous restaurants of Rome in the evenings.

Offered as a course for 4 day participation, the first 1½ days of the course has the scope of providing the broad picture of VoIP technology and its application to ATS Ground Voice Networks starting with a technology and functionality overview of today's operational telephone and radio networks followed by an explanation of work performed by the EUROCAE Working Group 67 in the definition of documents for VoIP-in-ATM. The course progresses to explain the basics of Voice over IP functionality followed by a high level description of how VoIP will be used in aeronautical ground telephone and radio communications, including its application to dynamic re-sectorization of airspace within Functional Airspace Blocks (FABs) with sector delegation between ACCs. EUROCONTROL and FAA VoIP initiatives followed by an overview of the Network and SESAR WP15.2.10 work for VoIP validation are then reported.

Day 2 PM session provides in-depth details about the Added benefits and functionality that VoIP brings to ATS Ground Telephone network that also introduces the functionality of the principle European, FAA and Oceania call types and features.

Day 3 will provide in-depth details about the added benefits and functionality that VoIP brings to ATS Ground Radio network and Recorder equipment, which also includes the FAA Remote Radio Node protocol operation.
The final DAY 4 moves on to examine network performance aspects, VoIP network architecture and security as well as a demonstration of the GL MAPS ED-137B Radio and Telephone Emulator applications and Interoperability Event activities completes the course.

During the course the ED-137 Radio and Telephone Emulators applications will be demonstrated connected through a LAN, as well as the ED-138 Network Performance Monitoring Tool. Impairments will be introduced within the Network through a Network Emulator tool in order that latency, packet loss, jitter effects on Voice quality can be listened to and measured.

The course has received positive appraisals from the majority of European Air Navigation Service Providers, the Federal Aviation Administration (FAA), NAV Canada, Canadian National Defence, Air Services Australia, Defence OneSKY, Royal Netherlands Airforce, Airways New Zealand, Airports Authority of India, Directorate Civil Aviation Namibia, Civil Aviation Authority Uganda, Portuguese Airforce and a number of ATC Voice Communication System, Radio and Voice Recorder suppliers. The Course Instructor is directly involved in the definition of the EUROCAE WG67 VoIP in ATM documents and has many years of experience in delivering Voice Communication courses.

See attached flyer for detailed descriptions of the course modules for the full 4 day course.

Course Venue:

HOLIDAY INN ROMA-EUR PARCO DEI MEDICI
Viale Castello Della Magliana 65, Rome, 00148, Italy

The Hotel is situated in the city's business hub and 12km from L. Da Vinci – Fiumicino International Airport. The Hotel offers a free shuttle service to and from the airport. The Hotel offers a shuttle service to and from the city centre at €4 per person one-way, to visit the iconic sights such as the Colosseum or the museums of the Vatican City. It is situated 15km from Stazione Termini in the centre of Rome.

For course participants the Hotel offers a special "Double-room single use" rate of 140 Euro + 6 Euro city tax per night (incuding an extensive breakfast buffet at the hotel's La Serra restaurant).
Room to be paid by the course participant on departure.
Hotel check-in time is from 2pm and check-out on day of departure before mid-day.

Hotel Facilities:
- Open air swimming pool
- Fitness Room
- High Speed internet Access
- 18 hole Parco dei Medici golf course (nearby)
- Bar & Restaurants
- 130 free parking spaces

To book your hotel room for the course contact:
Mrs Fiorenza Pizi
e-mail: fiorenza.pizi@jsp-teleconsultancy.com
Indicate "JSP course" in email subject header field.

Course Room:

The Course will take place in Aristotele meeting room located on the ground floor of the Hotel.

The air-conditioned room has a capacity for up to 20 people maximum.

The course will be presented via a 2 x 2 metre Projector screen and a flip chart.

Each participant has a 500 Page 3-part course book containing coloured slides and accompanying detailed descriptions, USB Memory drive, note pad, pen, lanyard.

A course certificate will be presented to each participate on completion of the course.

Bottled mineral water will be available during the course.

The room also has mains sockets available for portable PCs and free wi-fi access.

Course times:

From 9am until 5pm each day with hourly breaks and one hour for the buffet lunch in Hotel Restaurant.

Coffee Breaks and Buffet Lunch:

Coffee Break will take place in the morning at 10:00 and in the afternoon at 15:00

Coffee, tea, milk, infusions, pastries and mineral water will be served.

A Buffet lunch will be served at:
12:30 until 13:30

We will take a lunch break at 12:30 where a buffet lunch will be available inside the hotel.

A different buffet lunch menu will be offered each day consisting of Mixed starters, first course, variety of salad and dessert, coffee, mineral water, soft drinks and wine.

If you have a special diet or a food allegy please let us know in advance so we can inform the hotel.

Airport Shuttle Bus Service from/to Fiumicino Airport:

The Hotel offers a free Airport Shuttle Service from and to Fiumicino (Leonardo da Vinci) Airport, Rome.

The Shuttle Bus Parking Lot is No.30:

Departures Schedule from the Fiumicino Airport to the Hotel:
07.30 - 08.30 - 09.30 – 11.30 – 15.00 – 19.00 – 21.15

Departures Schedule from the Hotel to Fiumicino Airport:
07.00 - 08.00 – 09.00 – 11.00 – 14.30 – 18.30 – 20.45

Note: There is no Hotel shuttle service to/from Ciampino Airport.

Airport Shuttle Bus Service to/from City centre:

The Hotel offers an airport shuttle service to and from the city centre.

Departures Schedule from the Hotel to City Centre:
Monday to Friday: 10.00 – 12.30 – 16.00 – 19.45
Saturday and Sunday: 10.00 - 12.30 - 16.00 – 19.45 – 21.45

Departures Schedule from City Centre to Hotel:
Monday to Friday: 10.30 – 13.00 – 16.30 – 20.15
Saturday and Sunday: 10.30 - 13.00 – 16.30 – 20.15 – 22.15

Pick-up service at Fiumicino Airport:

Participants with flight arrival times at Fiumicino Airport after 21.15 on day before the course can request an Airport Pickup service if they provide their flight details

Taxi to Hotel from Fiumicino Airport:

The taxi fare from Fiumicino Airport to the Hotel distant 12km will be between 30€ and 40€;

Please use only authorised taxis (white vehicles with a taximeter) available at the arrivals area of each terminal. Look to make sure it has an official TAXI sign.
As you walk towards the official taxi rank DO NOT be persuaded to go with a non-official cab driver using a private taxi, as you could end up paying exaggerated fares.

It's always wise to clarify the journey's cost with the taxi driver when entering the taxi.

There is a €1.04 surcharge for each piece of baggage exceeding 35x25x50cm There is a €1 surcharge for each passenger after the fourth.

The prices quoted could rise slightly after 10pm.

By Train from Fiumicino Airport to Hotel

From Fiumicino Airport take train Fr1 Direction Fara Sabina, Get Off at The Muratella Station. The cost of a train ticket is 8€.

Trains to Fara Sabina leave very 30 minutes from Fiumicino Airport.

After you've picked up your luggage, follow the signs to **"Stazione FS/Railway Station**. You will have to go up the escalators to FLOOR 2 (the upper floor) and walk through the overhead tunnels.

Once you arrive at the "Stazione FS/Railway Station", buy a ticket at the Trenitalia tickey counter (near the train) for **"The Muratella".** You must validate your ticked by inserting it in the validation machine before you enter the train.

From the Muratella Station the Hotel is distant 500m. Follow the exit "Via A. Testoni", then turn left and go straight till the end of the road. Turn right, walk for 200m and take the first left. You will see the Hotel in front of you.

Note if you take the Leonardo Express train by mistake, this train will make no intermediate stops and takes 31 minutes to arrive at the Roma Termini Station.

By Metro (Underground) from Termini Station to Hotel

In Rome there are only two metro lines named LINEA A and LINEA B (See Map Below).

Look for the ![M] sign in Termini Station, take LINEA B towards LAURENTINA. After four stops you have arrived at Piramide Station/ Ostiense. Then take train Fr1 in Direction Fiumicino, getting off at the Muratella Station.

Rome metro system, called Metropolitana runs approximately every 7-10 minutes, from 5:30am until 11.30pm every day (until 0:30am on Saturdays). Tickets can be purchased in news stands, tobacco shops (tabaccaio) or vending machines. The drivers and conductors do not sell tickets. These tickets are also accepted on buses, trams etc.

Different Types of Metro Ticket:

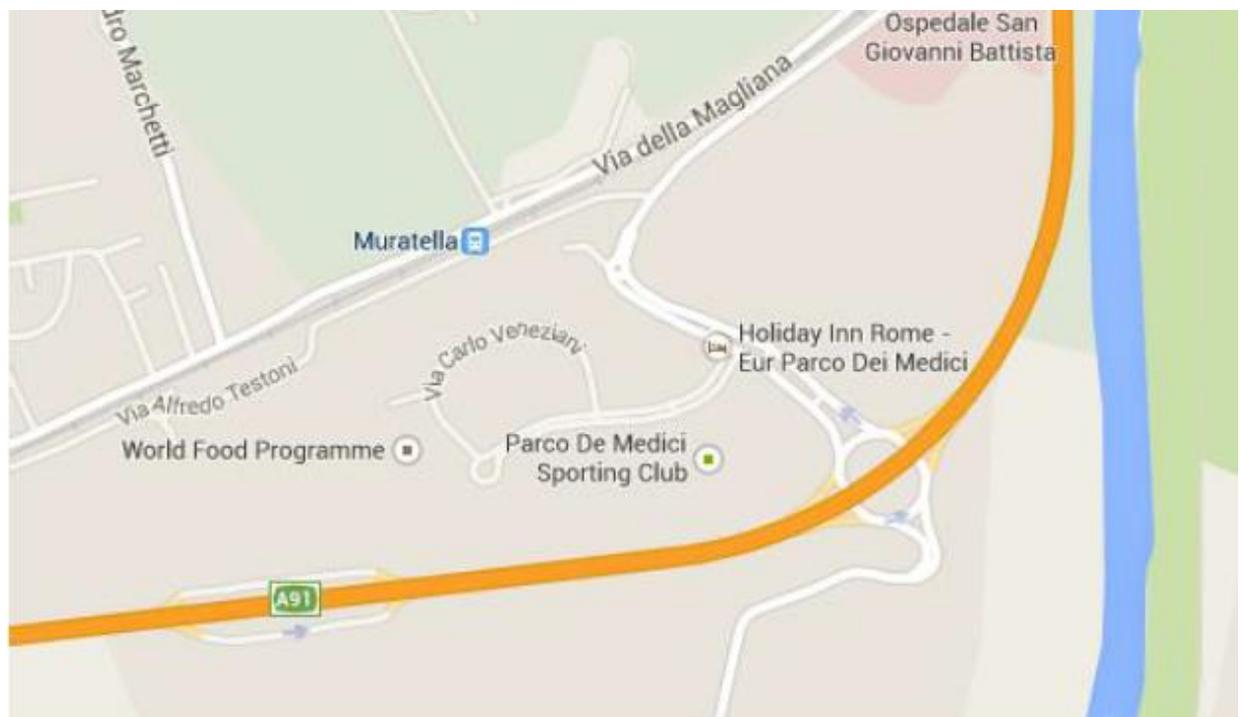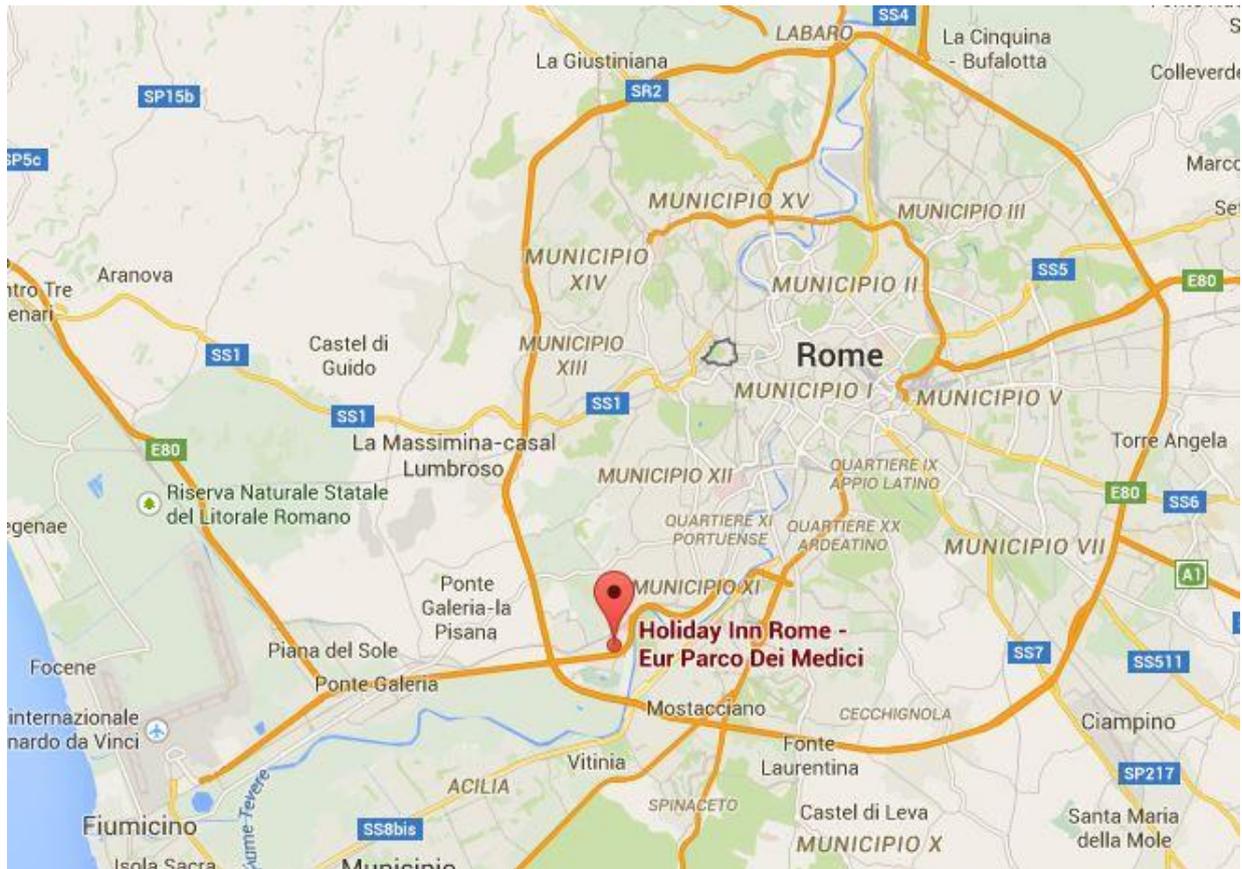|	
Biglietto semplice B.I.T. (Time Integrated Ticket) Price: €1,50	B.I.T. tickets can be used on any means of transport in Rome (metro, buses, trams and trolley buses); they are valid for 100 minutes and the visitor can take any transport mean to reach the preferred destination during the 100 minute time period. Tickets needs to be stamped when starting the travel; if the visitor takes the metro, then the ticket is valid for one journey only, but is valid for the whole 100 minutes if the visitor takes a bus or tram.
Roma 24H (One-day ticket) Price: €7,00	Valid 24 hours on any means of transport, it must be stamped only one time (when starting the travel); this ticket can be used on the metro more than once in all directions and is valid for a single person for 24 hours, starting from the time it was stamped.

Roma 48H (Two-day ticket) Price: €12,50	Valid 48 hours on any means of transport, it must be stamped only one time (when starting the travel); this ticket can be used on the metro more than once in all directions and is valid for a single person for 48 hours, starting from the time it was stamped.
Roma 72H (Three-day ticket) Price: €18,00	Valid 72 hours on any means of transport, it must be stamped only one time (when starting the travel); this ticket can be used on the metro more than once in all directions and is valid for a single person for 72 hours, starting from the time it was stamped.
Biglietto settimanale C.I.S. (tourist one-week integrated ticket) Price: €24,00	It is valid for 7 days in a row and it has the same terms of use like the B.I.T., only the owner must write his/her name on the card
Pre-purchase of tickets on-line	If visitors prefer to arrive in Rome with transport tickets already in-hand it is possible to use the app "My Cicero" where it is possible to buy either B.I.T. (100 minute) tickets and monthly tickets.

The Taxi fare from Termini Station in the city centre to the Hotel: Distance 15Km is €30 Approx.

Mapsof Hotel location.

Sight seeing in Rome (Distances from Mappy.it)

The Coliseum
Distance from Hotel in Taxi/Car: 13.0km
Distance from via Petroselli: 1.4km
Closest Metro stop: Colosseo   :

The Trevi Fountain:
Distance from Hotel in Tax/car: 15.0km
Distance from via Petroselli: 1.4km
Closest Metro stop: Barberini

The Vatican
Distance from Hotel in taxi/car: 14.0km
Distance from via Petroselli: 4.0km
Closest Metro stop: Cipro "Musei Vaticani"

Piazza Venezia:
Distance from Hotel in taxi/car 12.0km
Distance from via Petroselli 800 metres
Closest Metro Stop: Colosseo

The Roman Forum
Distance from Hotel in Taxi/Car: 14.0km
Distance from via Petroselli: 1.4km
Closest Metro stop: Colosseo

The Spanish Steps
Distance from Hotel in Taxi/Car: 15.0km
Distance from via Petroselli: 2.0km
Closest Metro stop: Spagna

Shopping in Rome (Distances from Mappy.it)

Via Frattini/Via Condotti - Shopping
Distance from Hotel in Taxi/Car: 14.2km
Distance from via Petroselli: 1.10km
Closest Metro stop: Spagna

EUROROMA2 –
The largest Shopping Centre in EUROPE
Distance from Hotel in Taxi/Car: 12km
Closest Metro stop: EUR Fermi

For those Course participants interested, a Sight Seeing Trip can be organised one evening during the course, visiting, the Coliseum, Spanish Steps, the Pantheon, Trevi Fountain and Piazza Navona stopping off for an evening meal at a restaurant close to the Trevi Fountain.