

AIR TRAVELLER AUTHENTICATION SYSTEM USING THE 2D BARCODE/QR CODE IN THE E-TICKET/ BOARDING PASS

Technical Specification:

Application Requirements:

- An Application to ensure the access to the terminal for the bonafide passengers only and to ensure that all the passengers who have entered the terminal, board the aircraft and fly out and those who do not board the aircraft for some reason, exit the terminal.
- Application should verify the passenger's authenticity through the 2-D barcode available in the e-Tickets or web boarding pass
- Application should get updated the passengers ticketing information then and there from the Aircraft Operators system.
- Application should identify/detect the duplicate Boarding Pass/E-Ticket and generate audio-visual alarm.
- Application should not have a lag of more than 3 minutes for refreshing and synchronizing of data.
- Scope of the system as mentioned in the ATC Document

Supply of Min 8 Core Rack Mountable Server With for 32 GB DDR5 RAM, 64 Bit Windows Server OS with 1 TB SSD for Application, DB, UAT and Disaster Recovery with required license for DB, Application., etc			
S.NO	Material Specification	Value	Compliance
1	Number of Cores	8 or more	Yes/No
2	Mountable nature	Rack Mountable	Yes/No
3	Type of RAM	DDR5	Yes/No
4	RAM capacity	32 GB	Yes/No
5	Operating System Compliance	Windows 64 Bit OS	Yes/No
6	Type of Storage	SSD	Yes/No
7	Capacity of the Storage	1 TB	Yes/No
8	Base frequency	3.4 Ghz	Yes/No
9	Number of Networking Interface Cards	1	Yes/No
10	Security Features	Secure Boot	Yes/No
11	Availability of TPM	Yes TPM 2.0	Yes/No
12	Management Features	Remote Management of Server	Yes/No
13	Warranty	1 Year	Yes/No
14	Number of Ethernet Ports	2	Yes/No
15	License	Should be supplied with all the required license for the installation and configuration of the server as per the design.	Yes/No

Supply of Industrial standard Wi-fi enabled Android/iOS tablet			
S.NO	Material Specification	Value	Yes/No
1	Material	Industrial Standard Android/ios Tablet	Yes/No
2	Processor	8 Core 2.0 Ghz or Higher Frequency Processor	Yes/No
3	Display Type	Touch	Yes/No
4	Display Size	10 inch or more	Yes/No
5	Storage memory capacity	64 GB or more	Yes/No
6	Type of RAM	DDR4	Yes/No
7	Size of RAM	4 GB or more	Yes/No
8	Wi-Fi Availability	Yes	Yes/No
10	Connectivity	USB, should be connected to the Barcode/QR Code Scanner	Yes/No
11	Warranty	1 Years	Yes/No
12	IP Rating	IP 65 or better	Yes/No

Supply of Industrial standard Kiosk for mounting the tablet and flatbed Scanner			
S.NO	Material Specification	Value	Yes/No
1	Material	Metal	Yes/No
2	Height of the Kiosk	Minimum 5 Ft	Yes/No
3	Height and tilt Adjustability	Yes, Adjustable	Yes/No
4	Positioning	Should be capable of Holding Processor with Touch Display and Barcode Scanner	Yes/No

Barcode / QR Code Scanner			
S.NO	Material Specification	Value	Yes/No
1	Scan Mode	Auto Sense/ Continuous or better	Yes/No
2	Protection	IP 52 or better	Yes/No
3	Scan angle	Roll- 360	Yes/No
4	Suitable for	Scanning the Barcode available in the Flight Ticket or boarding pass	Yes/No
5	Sensor Resolution	1280* 800	Yes/No
6	Connectivity Ports	USB, connectable to the industrial standard tablet	Yes/No
7	Warranty	1 Years	Yes/No

24 Port Manageable Switch			
S.NO	Material Specification	Value	Compliance
1	Type Switch	Manageable	Yes/No
2	Technology	POE+	Yes/No
3	Number of Copper Ports 1 G	24 or more	Yes/No
4	Number of 10 G Fiber Ports	4 or more	Yes/No

5	Warranty	1 Years	Yes/No
6	Console Port Availability	Yes	Yes/No
8	Switching Capacity	128 Gbps or higher	Yes/No
9	Throughput	95 MPPS or more	Yes/No
10	Packet Buffer	4 MB or more	Yes/No
11	RAM	1 GB or more	Yes/No
12	VLAN	4000 or more	Yes/No
13	MAC	16K or better	Yes/No
14	FLASH Memory	1 GB or better	Yes/No
15	JUMBO Frames	9000 Bytes or better	Yes/No
16	Power Budget	370 W or more	Yes/No

RACK			
1	Type of Rack	Portable 9U Rack Enclosure with secured lock	Yes/No
2	Warranty	1	Yes/No
3	Depth of the rack	600 mm	Yes/No
4	Mount type	Wall Mountable	Yes/No
5	Front Door	Glass Door	Yes/No

OFC			
1	Fiber Mode	Single Mode	Yes/No
2	Fiber Count	6	Yes/No
3	Cable Armoring	Armored	Yes/No
4	Jacket Material	HDPE or better	Yes/No
5	Jelly Filled	Yes	Yes/No

UTP			
1	Conductor	23 AWG Solid bare Copper	Yes/No
2	No.of Pair	4 Pair	Yes/No
3	Compliance	Compatible with all common systems according to TIA/EIA 568-C.2	Yes/No
4	Delay Skew	<50ns	Yes/No
5	Conductor Resistance	<=9.38 Ohm/100m	Yes/No
6	Sheath	FR- PVC insulation	Yes/No

Wi-Fi Access Point			
1	Physical Interface	RJ -45 POE Ethernet port	Yes/No
2	Wi-fi Standards	5 Ghz, 2.4 Ghz	Yes/No
3	Spatial Streams	4* 4 MIMO	Yes/No
4	Security Support wireless	WAP3- Enterprises or Equivalent	Yes/No
5	Support web Authentication	Radius, LDAP or equivalent	Yes/No
6	user Authentication	Radius, LDAP or equivalent	Yes/No
7	Rogue IP Detection and IDS	Yes, should be Available	Yes/No

8	Client Capacity	400 clients or more	Yes/No
9	SSID	32 channel , 16 per radio	Yes/No
10	IEEE Standard Support	IEEE 802.11a/b/g/n/ax/ac, IEEE 802.1X	Yes/No
11	Warranty	1 year	Yes/No