

Annexure A

SCOPE OF WORK

**The Supply, Installation, Commissioning, Maintenance and Support of Display Technologies at
Airports Company South Africa (ACSA)**

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1. PURPOSE OF THIS RFP

- 1.1 The purpose of this tender is to appoint a Service Provider that will:
 - 1.1.1 Provide the Supply, Installation, Commissioning, Maintenance and Support of display technologies at ACSA.

2. SCOPE OF WORK

2.1 Introduction

- 2.1.1 Display technologies are constantly evolving with changing user demands and technology trends;
- 2.1.2 Display technologies are more and more deployed worldwide in airports, trains, bus stations, shop outlets, malls and office complexes, in addition to other signage solutions;
- 2.1.3 Display technologies are the most effective way to communicate information and conform to the changing needs of society;
- 2.1.4 Next generation displays will be lighter, thinner, flexible, more adaptable and power efficient;
- 2.1.5 Display technologies are used within the airport terminals to convey key messages to customers and passengers on behalf of Airports Company South Africa ('ACSA');
An inability to provide these key messages may create a communication disconnect in terms of engaging the customer and passengers;
- 2.1.6 Display Technologies may be described as devices that display content for various systems such as 'Flight Information Display System' (FIDS) and video wall technologies. More formally, a display is a computer output surface and projecting mechanism that shows text and often graphic images to the computer user, using a cathode ray tube (CRT), 'liquid crystal display' (LCD), light-emitting diode (LED), gas plasma, or other image projection technology.

2.2 Issues with current Display Technologies

- 2.2.1 Poor image quality of the display screens;
- 2.2.2 Malfunctioning of devices that have reached end of life;
- 2.2.3 Ghosting of some of the devices resulting in poor display of information;
- 2.2.4 Continuous service disruptions due to age; and
- 2.2.5 Difficulty in acquiring parts for devices that have reached end of life.

2.3 **In Scope**

2.3.1 Supply, installation, commissioning, maintenance and support of the following types of display technologies:

2.3.1.1 FIDS Screens;

2.3.1.2 Video Walls;

2.3.1.3 LED Screen; and

2.3.1.4 Televisions.

2.3.1.5 Advertising PODS

2.3.1.6 Installation to include enclosures for some devices;

2.3.1.7 Installation to include all video transmission cabling;

Loading of ACSA software images and basic PC configuration (imaging, I.P configuration, naming of devices and adding to domain)

2.3.1.8 Provision of video wall displays for the control room to view content;

2.3.1.9 Provision of test units when requested by ACSA, as part of due-diligence process.

2.3.2 Maintenance and support of all new and existing equipment at all ACSA airports. (Install base attached)

2.3.2.1 An assessment of the current landscape; and

2.3.2.2 Decommissioning and replacement of exiting identified equipment and handing over to ACSA for storage.

2.4 **Out of scope**

2.4.1 ACSA will provide the equipment and services listed as out of scope below:

2.4.1.1 Network Infrastructure;

2.4.1.2 Facilities (Power, UPS power and cooling);

2.4.1.3 Servers; and

2.4.1.4 Creating FIDS Images.

2.5 **Current Landscape**

2.5.1 Environmental Influences

2.5.1.1 Public Displays are subject to a variety of environmental influences which are not encountered in typical office environment. Extreme temperatures, dust, water and humidity pose challenges to the normal functioning of the units.

Additional mechanical stress and vandalism need to be considered. Also, electromagnetic compatibility is an issue in public environment like airports and train stations.

2.5.2 Reliability during operation

2.5.2.1 A public display system needs to guide the passenger-flow through airport all day long. Normally the display devices need to function 24 x 365 throughout the year. Special care needs to be taken to make the displays function reliably and to protect them against excessive wear and tear.

2.5.3 Safety Requirements

2.5.3.1 Safety of the passengers and fire prevention are key issues in public buildings. Many thousands of people pass through the airport or train station, shop outlets and malls, etc. each day and any potential injury or damage must be prevented at all cost.

2.5.4 Availability

2.5.4.1 The display device lifespan is typically 3 to 5 years. In case of replacement of displays or extension of existing installations it is important to get identical products as originally installed. Therefore, it is important to have a product which is available in the same configuration regarding form, fit and functionality for a long period of time.

2.6 Supply, Installation, Commission, Maintenance and Support of Display Technologies

2.6.1 Bidders must ensure that their proposed equipment meet the following minimum specifications:

2.6.1.1 FIDS (Flight Information Display System) Specification

Components	Screen Type
Screen size	40" 42" 46" 50" 55" 65" (2-inch tolerance accepted)
Resolution	1,920 x 1,080
Type	LED / LCD
Mounting method	Flush wall mount
Additional Features	
Operation	24 Hour Industrial Operation
Clock On/Off Timer	Yes
HDMI	Yes - 2 ports
USB	Yes - 2 ports
Built in PC Slot	Yes
Ethernet (LAN)	Yes, network bootable (boot from LAN)
Bezel Type	Slim, maximum 10mm

Components	Screen Type
Front Colour	Black
Power Supply	AC 220 - 240 V (50 / 60 Hz)
Power Consumption (Stand-by)	< 0.3 W
Wall Mount Support	Yes
Universal internal pc (slots into display, not bolt on)	Intel i5 processor 120 gig SSD 1 gig Ethernet adaptor (RJ45) DDR 2 gig Video RAM 256MB Video outputs DVI\VGA\HDMI USB2 x 3 Wi-Fi enabled Windows 10 capable
Warranty	
3 Year comprehensive	Minimum

Table 1 FIDS Specification

2.6.1.2 General Public Display Specification (Retail)

Components	Screen Type
Screen size	40" 42" 46" 50" 55" 65" (2-inch tolerance accepted)
Resolution	1,920 x 1,080
Type	LED / LCD
Mounting method	Flush wall mount
Audio	Yes
Sound Output	Yes
Additional Features	
Operation	24 Hour Industrial Operation
Clock On/Off Timer	Yes
HDMI	Yes - 2 ports
USB	Yes - 2 ports
PC In (D-sub)	Yes
Built in PC Slot	Yes
Built in Media Player	Yes
PC Audio In (Mini Jack)	Yes
Ethernet (LAN)	Yes
Bezel Type	Slim, maximum 10mm
Front Colour	Black
Power Supply	AC 220 - 240 V (50 / 60 Hz)
Wall Mount Support	Yes
Warranty	
3 Year comprehensive	Minimum

Table 2 General Public Display Specification (Retail)

2.6.1.3 Television (SMART) Specification

Components	Screen Type
Screen size	36" 40" 42" 46" 50" 55" 60" 65" (2-inch

	tolerance accepted)
Resolution	1,920 x 1,080
Type	LED / LCD
Mounting method	Flush wall mount
Audio	Yes
Additional Features	
Wireless LAN Built-in	Yes
Wireless LAN Adaptor Support	Yes
Auto Channel Search	Yes
Clock On/Off Timer	Yes
DTV Tuner Built-in	Yes
Media Player Built-in	Yes
HDMI	Yes - 2 ports
USB	Yes - 2 ports
Composite In (AV)	Yes
RF In (Terrestrial/Cable Input)	Yes
Bezel Type	Slim
Front Colour	Black
Power Supply	AC 220 - 240 V (50 / 60 Hz)
Wall Mount Support	Yes
Warranty	
3 Year comprehensive	Minimum

Table 3 Television Specification

2.6.1.4 LED Large Display Boards Specification (FIDS)

Components	Screen Type
Screen size (physical)	3072mm x 2048mm (10cm tolerance allowed)
Resolution	1024 x 768
Type	LED
Power Supply	220 VAC/50 Hz, Single phase
Bracket\ Enclosure	Design, Manufacture, Installation
Viewing Angle	140 Degrees
Location	Indoor / outdoor
Video Input	external PC provided by ACSA, to be housed in enclosure
PC Input	DVI\ VGA\ HDMI
Pixel Pitch	4mm Maximum
Service/ Repairs	Front serviceable
Frame Update Freq	60 - 85Hz
Display Colour	16.7 million colours, Full colour
Input resolution (from pc)	1024 x 768
Peripherals	All scaling equipment to be included
Enclosure Specification	Custom, as per exiting standard used at ORTIA domestic arrivals. To be demonstrated upon site visit

Components	Screen Type
Warranty	
3 Year comprehensive	Minimum

Table 4 LED Specification

2.6.1.5 Video Wall Specification

Components	Screen Type
Screen size (physical)	36" 40" 42" 46" 50" 55" 60" 65" (2-inch tolerance accepted), Ultra-Thin Bezel
Resolution	HD
Type	LED\ LCD
Video Wall controller	Controller or Software solution
Bracket\ Enclosure	Design, Manufacture, Installation
Viewing Angle	140 Degrees
Location	Indoor
Viewing Distance	1m – 15m
External PC input	Yes
PC Input	DVI, VGA\ and HDMI
Media Input	Multiple PC input/ Media player/ Media sever/ Media streaming via network. Content distribution and application software
Service/ Repairs	Front serviceable
Display Capabilities	Single view/ multiple screen views
Display Colour	Full Colour
Warranty	
3 Year comprehensive	Minimum

Table 5 Video Wall Specification

2.6.2 Detailed Requirements for all new installations

SITE	TYPE	QUANTITY
CTIA	FIDS (Flight Information Display System) 42inch	258
	LED Large Display Boards	46
	Video Wall - ECC 47inch	16
	Video Wall - AMC 55inch	28
	Video Wall - IMC 40inch	12
	General Public Display 42inch	32
	General Public Display 50inch	28
	General Public Display 65inch	6
ORTIA	LED Large Display Boards	41
	Video Wall - ULCR 50inch	8
	Video Wall - AMC 50inch	20
	General Public Display 42inch	108
	General Public Display 46inch	35
	General Public Display 55inch	1
KSIA	LED Large Display Boards	6
	Video Wall - AMC 50inch	12
	Video Wall - ECC 50inch	12
	General Public Display 46inch	10
	General Public Display 55inch	11
OPERATIONAL SCREENS	FIDS (Flight Information Display System) 42inch	50
	FIDS (Flight Information Display System) 46inch	30
VESTEL OPS PC	Universal OPS pc, as per current installed standard	40
CORPORATE COMMUNICATIONS	FIDS (Flight Information Display System) 65inch	60
INSTALLATION	LCD Screens	549
	LED Boards	93
	VideoWall - Complete	7
BRACKETING	40inch bracket	448
	46inch bracket	75
	50inch bracket	28
	55inch bracket	12
	65inch bracket	66
	LED Enclosure	93
	Video Wall bracket per screen	108
	Vertical bracket for 46inch LCD	20
	Roof hanging bracket for 46inch LCD	20

Table 6 Detailed Requirements

2.6.3 Hardware to be Decommissioned

SITE	TYPE	QUANTITY
CTIA	FIDS (Flight Information Display System) 42inch	258
	LED Large Display Boards	46
	Video Wall - ECC 47inch	16
	Video Wall - AMC 55inch	28
	Video Wall - IMC 40inch	12
ORTIA	LED Large Display Boards	41
	Video Wall - ULCR 50inch	8
	Video Wall - AMC 50inch	20
KSIA	LED Large Display Boards	6

Table 7 Hardware to be Decommissioned

2.7 System documentation requirement

The Bidders must provide ACSA with system documentation that includes architectural documents, training manual(s) and manuals.

2.8 User training requirement

- 2.8.1 Provide onsite training to ACSA personnel (4 resources per site) at CTIA, ORTIA and KSIA on how to operate the devices that are installed at the airport; and
- 2.8.2 Provide training manuals.

2.9 Warranty Requirement

- 2.9.1 Service Provider must supply the proof of Warrantee for all devices procured
- 2.9.2 Service Provider must supply the Warranty claim process in case of a device failure
- 2.9.3 Service Provider must provide a list of maintenance activities applicable to the device for ACSA to ensure that devices are working optimally.

3. Accreditation and partnership with OEM

Bidders are expected to provide written proof of their partnership status with the OEM or any form of accreditation that certifies that the supplier has the necessary resources and skills to work on the specific technology or devices.

4. Meetings & Reporting Requirements

All reports must be submitted three days prior to the meeting day. The meeting will be attended by the Service Providers team lead and ACSA's contract manager.

5. Summary of Reports and their Frequency

Report Description	Report Content	Submission due date	Frequency	Submitted to	Format
Financial Reports	Financial Report Invoices and Statements	24 th of every month	Monthly	Project Manager	PDF
Asset tracking Report	List of equipment supplied with assets numbers (Soft copy) Detail of where each device is installed	24 th of every month	Monthly	Contract owner	Word document and/or Excel
Project Status Report	Status Risks / Issues Next milestones	Every Wed	Weekly	Project Manager	Word document and/or Excel
Project Documentation	<ul style="list-style-type: none"> ▪ Details of items supplied, installed and commissioned. Project hand-over ▪ IP Address of the equipment 	Once Project is completed	Once Project is completed	Contract Owner	Word document and/or Excel
Adhoc Reports	Adhoc Reports to be drawn as and when required	As and when required	Adhoc	Either party	As agreed by all parties

Table 7 Summary of Reports and Their Frequency

6. Summary of Meeting and Their Frequency

Meeting Name	Standing Agenda	Participants and Role	Frequency	Documents to be submitted prior to meeting	Documents to be produced after meeting
Project Status	<ul style="list-style-type: none"> ▪ Status ▪ Risks / Issues ▪ Next milestones ▪ Monthly services deliverables 	<ul style="list-style-type: none"> ▪ Service provider account manager ▪ ACSA representatives 	Monthly	Project Report	<ul style="list-style-type: none"> ▪ Minutes of meeting ▪ Action items ▪ Acceptance of deliverable ▪ Payment status ▪ Deliverables for the upcoming month
Adhoc	Adhoc	As and when required	Adhoc	Either party	Lync or in person

Table 8 Summary of Meeting Types and Their Frequency

7. Price Requirements

- 7.1.1 Bidders are requested to provide pricing schedules for Maintenance and support of the existing systems;**
- 7.1.2 ACSA will decide on which airport devices will be installed in a particular financial year but maintenance on all systems at each airport will be commence as detailed in table 10. The Service Provider will be informed when the current maintenance contract expires.
- 7.1.3 All prices to be in ZAR as requested both inclusive and exclusive of VAT.
- 7.1.4 Pricing must include all applicable taxes and shipping to the location of implementation;
- 7.1.5 Pricing must take into account site establishment, Permits and Induction training.

Item	Price
FIDS screen 40"	
FIDS screen 46"	
FIDS screen 50"	
FIDS screen 55"	
FIDS screen 65"	



General Public Display 40"	
General Public Display 46"	
General Public Display 50"	
General Public Display 55"	
General Public Display 65"	
Television 36"	
Television 40"	
Television 46"	
Television 50"	
Television 55"	
Television 65"	
LED Large Display Boards 3072mm x 2048mm Enclosure	
Videowall panel 46inch	
Videowall panel 50inch	
Videowall panel 55inch	
HD cable 5m	
HD cable 10m	
Videowall Controller	
Bracket for 36"	
Bracket for 40"	
Bracket for 46"	
Bracket for 55"	
Bracket for 65"	
Bracket – lockable – anti-theft 40 inch	
Bracket – lockable – anti-theft 46 inch	
Bracket – lockable – anti-theft 50 inch	
Bracket – lockable – anti-theft 55 inch	
Bracket – lockable – anti-theft 60 inch	
Bracket – lockable – anti-theft 65 inch	
Weatherproof lockable enclosure for 40inch	
Weatherproof lockable enclosure for 46inch	
Weatherproof lockable enclosure for 50inch	
Weatherproof lockable enclosure for 55inch	
Weatherproof lockable enclosure for 60inch	

Weatherproof lockable enclosure for 65inch	
Bracket for LED Board 3072mm x2048 Enclosure	
Installation for 32"	
Installation for 40"	
Installation for 46"	
Installation for 50"	
Installation for 55"	
Installation for 60"	
Installation for 65"	

Table 9 Pricing Schedule

8. Resources, Call outs and after hour's rates

- 8.1.1 ACSA requires resources/Service Provider personnel to be onsite for special events or additions to the system. (These events are not fault or incident related). e.g. (Planned power shut downs/Major Change in the IT Infrastructure etc. The resource may be required to check and confirm that the system is operational after the event)
- 8.1.2 ACSA requires resources that are on 24 hours standby and are available when needed
- 8.1.3 Faults and incident related callouts must be included in the monthly maintenance and support fees. No additional payment will be required for such callouts.
- 8.1.4 Below are the resources types that will be required for all the airports (listed on table 9), these resources will be required afterhours, weekend, Sundays and Public Holidays.
- 8.1.5 All contract resources require ACSA Permits and Airside Induction. This is for the Contractor's account. (Prices range form 400, 600,
- 8.1.6 Parking
- 8.1.7 Safety files for each site have to be in place before work commences.

Resource	Qualification	Technical Certifications	Experience
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Technician	Certificate	OEM	Minimum of 3 years' experience in installing, supporting and maintaining of the equipment that form part of the scope of work
Senior Technician	Certificate	OEM and A+ or equivalent	Minimum of 5 years' experience in installing, supporting and maintaining of the equipment that form part of the scope of work

Table 10 Call out Resource Types

MINIMUM REQUIRED RESOURCE ALLOCATION FOR MAINTENANCE AND SUPPORT		
AIRPORT	ONSITE RESOURCES	AS PER SLA
OR TAMBO	2	
CAPE TOWN	2	
KING SHAKA	1	
EAST LONDON		AS PER SLA
GEORGE		AS PER SLA
KIMBERLY		AS PER SLA
PORT ELIZABETH		AS PER SLA
BLOEMFONTEIN		AS PER SLA
UPINGTON		AS PER SLA

Airport	Airport Address
King Shaka International airport	King Shaka Dr, La Mercy, 4407
Cape Town International Airport	Matroosfontein, Cape Town, 7490
OR Tambo International Airport	1 Jones Rd, Kempton Park, Johannesburg, 1632
Port Elizabeth Airport	Allister Miller Dr, Walmer, Port Elizabeth, 6070
East London airport	East London Airport, Settlersway, East London, 5200
Bram Fischer Airport	Bram Fischer Airport, Bloemfontein, 9300
Upington Airport	Diedericks Street, Upington, 8801
George Airport	George Airport, old Mosselbay Road, George, 6529
Kimberley Airport	Comp Patterson Rd, Diskobolos, Kimberley, 8300
ACSA Corporate Office	The Maples, Riverwoods, 24 Johnson Road, Bedfordview 2008, Gauteng

Table 11 Site Location

9. Maintenance Requirements

9.1.1 Preventative Maintenance

Preventative maintenance, defined as any planned overhaul, replacement, inspection or tests conducted with the purpose of preventing specifically defined failures through maintaining the condition of the infrastructure or assessing its condition for the purposes of corrective maintenance. The preventative maintenance is performed to prevent failures from occurring. The Contractor will be held liable for the repair of any failure detailed in the table below if the

Contractor failed to identify the failure condition on the maintenance report and notify the contract supervisor for the necessary corrective maintenance authorisation. Therefore, the Contractor should include any further preventative maintenance recommendations, which in their opinion are necessary for the specific and other failure prevention.

9.1.2 Preventative Maintenance Report

Contractor must provide weekly reports for preventative maintenance work done. The report must show which screens have been attended to daily and what work was performed on each device. The report must be presented at the weekly service review meetings that will be scheduled on agreed day and time.

9.1.3 Maintenance Activities

9.1.3.1 Installation of display monitors and LEDs

9.1.3.2 Installation and customization of display monitor brackets

9.1.3.3 Loading of ACSA approved FIDS images on FIDS pc and local PC configuration

9.1.3.4 Onsite hardware fixes and swaps out

9.1.3.5 Site hardware audit documentation to be kept and updated

9.1.3.6 Logging\managing\reporting and accepting calls via the ACSA Service Desk

9.1.3.7 Check and make sure that the FIDS/BIDS screen are working

9.1.3.8 Clean screens

9.1.3.9 Clean bracketing

9.1.3.10 Neaten cables

9.1.3.11 Check picture quality for burning or ghosting

9.1.3.12 Make sure that screens are aligned or Mounted straight

9.1.3.13 Ensure that screens are mounted properly and securely fixed

9.1.4 Maintenance Schedule:

Activity	Frequency	Location
Clean screens	Monthly	Week1- International Departures Week2 – International Arrivals Week3 – Domestic Departures Week4 – Domestic Arrivals
Clean brackets	Monthly	Week1- International Departures. Week2 – International Arrivals Week3 – Domestic Departures Week4 – Domestic Arrivals

Activity	Frequency	Location
Neaten cables	Monthly	Week1- International Departures Week2 – International Arrivals Week3 – Domestic Departures Week4 – Domestic Arrivals
Update site audit	Monthly	Week1- International Departures Week2 – International Arrivals Week3 – Domestic Departures Week4 – Domestic Arrivals
Check Picture quality	Daily	All Terminals
Check device operational	Daily	All Terminals
Check for correct information	Daily	All Terminals

Table 12 Maintenance Schedule

10. Corrective Maintenance Schedule

- 10.1.1 Corrective Maintenance will be logged via the ACSA IT Service desk and be carried out as specified by this SLA
- 10.1.2 Monitor fault logs or new ad hock installation
- 10.1.3 Frequently report on progress of repairs/installations
- 10.1.4 Follow change management process, for any changes needed for FIDS environment
- 10.1.5 Effect the changes/repairs
- 10.1.6 Certify repairs/changes via tests
- 10.1.7 Update documentation if required
- 10.1.8 Hand over to IT Service desk
- 10.1.9 Diagnose the causes of Outages and Faults
- 10.1.10 Resolve Outages and Faults within specified time frames
- 10.1.11 Report on spares in stock and usage.
- 10.1.12 Request additional spares, if current stock is low

11 Incident Management and Support Services

12 Support Services

12.1.1 Refers to day to day support activities performed to resolve incidents that are logged by users of system or logged by the monitoring tools or alarm and error logs generated by the system internal monitoring.

12.1.2 The Service Provider will be required to attend to; and resolve all incidents in line with ACSA incident management processes. All incidents will be logged on the IT service desk systems

12.1.3 The response and resolution times depicted below must be adhered to. This will form part of the SLAs that will be agreed to between the Service Provider and ACSA.

12.1.4 Penalties will be incurred by the Service Provider if the agreed required SLA times are not met.

13 Incident logging procedure:

13.1.1 All incidents must be logged with ACSA service desk via email, telephone or on the self-service web portal. The incident must be updated regularly depending on the priority of the incidents until resolution.

13.1.2 All incidents must be updated with a detailed resolution before closure. The Service Provider must notify the service desk immediately on resolution of the incident.

14 Definition of incident priority

14.1.1 P1 - Total systems failure/server down or failure of devices in one or more areas of the airport. The failure has a negative impact to the airport's operation.

14.1.2 P2 - Multiple devices are down simultaneously in different areas or levels in close proximity

14.1.3 P3 - Single device failure or components of systems

14.1.4 P4 - Non-critical fault/failure logged at night or over the weekend. It has no impact on the operations of the airport.

14.1.5 P5 – Minor incidents or move/change or installation of new item

Incident management response and resolution time			
	Response	Resolution	Update Feedback
P1	15min	2hrs	30min

P2	30min	4hrs	1hr
P3	60min	8hrs	2hrs
P4	4hours	24hrs	8hrs
P5	8hours	48hrs	8hrs

Table 13 Incident Response and Resolution time

15 Penalties

15.1.1 The Service Provider shall repair all faulty equipment within the times specified in the SLA. The following penalties shall apply for failure to resolve incident within agreed timelines:

SLA breach	Penalty
Incidents are resolved within one hour after SLA time lapsed for three consecutive times.	20 % of the monthly fee will be deducted.
Incidents are resolved within two hours and beyond after SLA time lapsed for three consecutive times.	30 % of the monthly fee will be deducted.
Third missed SLA in one month—will be deemed as a material breach, and the contract will be referred to performance management.	50 % of the monthly fee will be deducted.

Table 14 SLA Breach and Penalties

15.1.2 Failure to perform preventative maintenance according to schedule dates shall result in the following penalties:

SLA breach	Penalty
Maintenance not done or proof not submitted.	50 % of the monthly maintenance and support fee will be deducted.

Table 15 SLA Breach and Penalty for Maintenance

16 Availability requirements

An ACSA availability requirement for FIDS is 99.8% per month. The Service Provider must ensure that the availability targets are met every month. In an event that the target is not met the Service Provider shall be required to provide a valid explanation. ACSA will impose penalties if the targets are not met.

17 ACSA Responsibilities

ACSA IT will ensure that there is adequate power and cooling for the devices to operate optimally. The Service Provider is expected to formally report any problems associated with the facilities and network infrastructure that may negatively impact the environment supported by the Service Provider.

18 Existing Infrastructure to be supported (excluding proposed equipment)

ASSET	OEM	ORTIA	CTIA	KSIA	KIM	UPN	BFIA	EL	PE	GRJ
LED	ABSEN	3								
40" NEC SCREEN	NEC			9						
42" NEC SCREEN	NEC	104	6		9	3				
46" NEC SCREEN	NEC	160		19		2	2	14	19	
55" NEC SCREEN	NEC				2		2			
NEC V463	NEC									12
32" VESTEL SCREEN	VESTEL	108		22						13
40" VESTEL SCREEN	VESTEL	334	30	147	9		18	24	30	6
41" VESTEL SCREEN	VESTEL								1	
42" VESTEL SCREEN	VESTEL								1	
47" VESTEL SCREEN	VESTEL		16							
65" VESTEL SCREEN	VESTEL		8							
Television +/- 40"	HISENSE	11								
VESTEL 65"-PC	VESTEL	1								
VESTEL 50"-PC	VESTEL	37								
VESTEL 40"-PC	VESTEL	16	4							
VESTEL VCD440	VESTEL									1
32" Samsung	SAMSUNG		4							2
40" Samsung	SAMSUNG		12							
46" Samsung	SAMSUNG	14	14							
47" Samsung	SAMSUNG									1
Advertising Screens – Vestel 65" without PC	VESTEL			12						
CCTV Screens – Vestel 50" without PC	VESTEL			4						
65" LG	LG	2								
65" Samsung	SAMSUNG	1								

Table 16 Existing Infrastructure to be supported (excluding proposed equipment)