

TABLE OF CONTENTS

GENERAL	2
PREPARATION	3
Project Definition	3
Pre-installation visit & checklist	4
Network	5
Cabling Diagram	7
INSTALLATION	9
Cabling	10
Pass Gateway rack Placement	11
displays Placement	12
camera Placement	14
CONNECTING	17
Connecting Rack	17
Connection to legacy PMS & barriers	18
Connection Barriers	19
Loops	20
POWER-UP & CONFIGURATION	21
Acceptance Installation	21
Acceptance Cabling & External Connections	22
Rack	23
I/O Module	24
Network Access	27
PC	28
Network Switch	29
UPS	32
Keypad	35
Camera's Survision	36
Displays	38
ERROR SCENARIO'S	45

NETWORK

Prepare the following router and firewall configurations to be done by QPark network

<https://accenv-cluster.westeurope.cloudapp.azure.com:19081/QPark.Cloud.Access/WebApi/swagger/> SSL must be enabled

Configuration Server

IPv4 Address Port

Resin

Port	Detail
443 (TCP)	used to connect to the VPN and the web terminal, and many web endpoints using TLS (https://.)
123 (UDP)	NTP time synchronisation
53 (UDP)	DNS name resolution

Domain to whitelist	Port
*.resin.io	80, 443
*.pubnub.com	80, 443

Additionally make an outgoing connection to **mixpanel.com**, but this is not a functional requirement, but rather allows us to track useful metrics

Source: <https://docs.resin.io/deployment/network/2.x/#network-requirements>

Azure

Protocol	Port
MQTT	8883
MQTT over WebSockets	443
AMQP	5671
AMQP over WebSockets	443
HTTPS	443

Logging

IPv4 Address	Port
10.16.45.214	5044

CCV

IPv4 Address Description	Description	Ports
193.172.166.19	CCV TMS Server	6600
		6900
		10040