THE NEW SURREY HOSPITAL AND BC CANCER CENTRE PROJECT

Schedule 1 – Statement of Requirements

Appendix 1W – Systems Responsibility Matrix

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ATTACHMENTS:

- .1 Systems Responsibility Matrix
- .2 Systems Integration Matrix

1 INTENT

1.1 Summary:

- 1.1.1 To provide an overview of systems roles and responsibilities between the Design-Builder and the Authority and does not override specific requirements in Schedule 1 [Statement of Requirements].
- 1.1.2 To provide guidance on systems that require seamless integration to each other via a Systems Integration Matrix.
- 1.1.3 For specifics, refer to the appropriate section reference numbers in Schedule 1 [Statement of Requirements], or the other noted Appendices.
- 1.1.4 In the event of a discrepancy between Appendix 1W and Schedule 1, the requirements in Schedule 1 will govern.

2 DEFINITIONS

2.1 In this Appendix:

- 2.1.1 The attachment is the Systems Responsibility matrix.
- 2.1.2 The matrix is for the Facility.
- 2.1.3 "Division" refers to the construction Division that the system is part of.
- 2.1.4 "Specification Reference" refers to the specific section of Schedule 1 where the system requirements are detailed.
- 2.1.5 "System Selection" means who has responsibility for selection of the manufacturer and individual model numbers.
- 2.1.6 "Infrastructure" means all pathways, cabling, power, connectors, wall backing, equipment mounts/brackets, supports, pathway boxes and installation works needed to enable system connectivity in adherence to codes and standards.
- 2.1.7 "Equipment" means all manufacturer supported system hardware, electronic components and media adapters needed to enable system functionality in adherence to codes and standards.
- 2.1.8 "Software" means all software scripts, modules and manufacturer supported programming code needed to enable functionality in adherence to codes and standards.
- 2.1.9 "Design" means who has responsibility for the delivery of design specifications, drawings, and any other engineering services required for a complete and operational system.
- 2.1.10 "Supply" means who has responsibility for the management and completion of procurement processes, up to and including delivery including the payment to vendors.
- 2.1.11 "Install" means who has responsibility to install in the Facility, including making connections to necessary building services (including plumbing, heating, cooling, ventilation and electricity), connections to necessary communication or network interfaces or devices, and all necessary software programming to deliver a functional system.

- 2.1.12 "Commission" means who is responsible to test, commission and certify the equipment or system in accordance with any commissioning requirements set out in this Agreement, and applicable standards and good industry practices, including to ensure that the Equipment/System is operating in accordance with the manufacturer's requirements and specification
- 2.1.13 "Integration" means who has responsibility for connecting disparate systems for the purposes of data and/or event exchange through a combination of infrastructure, hardware and/or software links that are defined and selected in consultation with the Owner to achieve stable operation and repeatable exchange between systems.
- 2.1.14 "IM/IT" means the Authority's Information Management Information Technology representatives.
- 2.1.15 "DB" means the organization building the New Surrey Hospital and BC Cancer Centre.
- 2.1.16 "N/A" means representative Not Applicable.
- 2.1.17 "Authority" means Fraser Health Authority and its representatives.
- 2.1.18 "DB/Authority" means the Design-Builder and the Authority in their respective scopes.
- 2.1.19 "Training and Documentation" means who has responsibility for the training and documentation customized for the Authority's stakeholders.

ATTACHMENTS:

- .1 SYSTEMS RESPONSIBILITY MATRIX
- .2 SYSTEMS INTEGRATION MATRIX

	Specification	System Deployment														
System Name	Reference	System Selection	Infrastructure Design	Supply and Install Infrastructure	Equipment Design	Supply Equipment	Install Equipment	Software Design	Supply Software	Install & Configure Software	Commission	Integration	Training and Documentation			
Division 25 - Integrated Automation	7.6															
Integrated Building Management Platform (IBMP)	7.6.2	DB/Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Building Management System (BMS)	7.6.3	DB/Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
FMO Network and Infrastructure	7.6.5	Authority	DB	DB	Authority	Authority	DB	Authority	Authority	Authority	Authority	DB/Authority	Authority			
		,			•	,			,	•	•	,	· · · · · · · · · · · · · · · · · · ·			
Division 27 - Communications	7.8															
IM/IT Data Network	7.8.11	Authority	DB	DB	Authority	Authority	DB	Authority	Authority	Authority	Authority	DB/Authority	Authority			
IM/IT Wireless Network	7.8.12	Authority	DB	DB	Authority	Authority	DB	N/A	N/A	N/A	Authority	Authority	Authority			
IM/IT Voice Network	7.8.13	Authority	DB	DB	Authority	Authority	Authority	Authority	Authority	Authority	Authority	DB/Authority	Authority			
IM/IT End-Use Equipment	7.8.14	Authority	DB	DB	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority			
Multimedia Infrastructure and Systems				•			•			·						
Type 1, 2, 3, 5 A/B	7045	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB/Authority	DB			
Type 4 A/B	7.8.15	Authority	DB	DB	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority			
Type 6		Authority	DB	DB	Authority	Authority	Authority	Authority	Authority	Authority	Authority	DB	DB/Authority			
Digital Wayfinding	7.8.16	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB/Authority	DB			
Digital Signage	7.8.17	Authority	DB	DB	Authority	Authority	Authority	Authority	Authority	Authority	Authority	DB/Authority	Authority			
Patient Physiological Monitoring	7.8.18	Authority	DB	DB	Authority	Authority	DB/Authority	Authority	Authority	Authority	DB/Authority	Authority	Authority			
Public Address	7.8.19	Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Nurse Call	7.8.20	DB/Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	Authority			
Clock Systems	7.8.21	Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Distributed Antenna System (DAS)	7.8.22	Authority	Authority	DB/Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority	Authority			
Real Time Locating System (RTLS)	7.8.24	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB/Authority	DB			
Systems Integration	7.8.25	DB	N/A	N/A	N/A	N/A	N/A	DB	DB	DB	DB	DB/Authority	DB			
Division 28 - Electronic Safety and Security	7.9															
Fire Alarm System	7.9.3	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB				
Access Control System	7.9.4	Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Fixed Panic Duress System	7.9.5	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Intrusion Detection System	7.9.6	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Overdose Notification System	7.9.7	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Intercommunications System	7.9.8	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
IP Video Surveillance System	7.9.9	Authority	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			
Patient Wandering System	7.9.10	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB	DB			

APPENDIX 1W - SYSTEMS INTEGRATION MATRIX

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System Name	Specification Reference	Division 25 - Integrated Automation	Integrated Building Management Platform (IBMP)	Building Management System	Energy Metering	Plumbing Systems Control	Medical Gas	MDR Sterilization	Fire Suppression	Electrical systems monitoring	Division 26 - Electrical Systems	UPS Systems	Lighting Control Systems	Pneumatic Tube System	Electrical Vehical Supply Equipment (EVSE)	Elevators	Division 27 - Communications	IM/IT Data Network	IM/IT Wi-Fi Network	ork	Multimedia Infrastructure and Systems	giral wayiiinii g	Ulgital olgilage Datient Physiological Monitoring System	Public Address System	Nurse Call Systems	Clock System	Distributed Antenna System (DAS)	CATV	Real Time Locating Services (RTLS)	Division 28 - ESS	Fire Alarm System	Access Control System	Wireless Staff Panic Duress System	Fixed Panic Duress System	Intrusion Detection System	Intercommunications System IP Video Surveillance System	Patient Wandering System
Division 25 - Integrated Automation	7.6																																				
Integrated Building Management Platform (IBMP)	7.6.2			Χ	X >	Х		Χ	Χ	Χ		Х	Х	Х	Χ	Χ		Х							Х	Χ					Χ						
Building Management System	7.6.3				X	Х	Х	Х	Χ	Χ		Х	Х	Х				Х							Х	Χ					Χ						
Energy Metering	1(4)(b)					Х	Х	Χ				X	Х	Х	Χ	Χ		Х																			
Facility Electrochromatic Glazing	1(4)(d)									Χ			Х					Χ							Х	Χ											
Plumbing Systems Control	1(4)(g)								Χ	Χ								Х							Х												
Medical Gas	1(4)(k)									Χ		X						Χ																			
MDR Sterilization	1(4)(n)								Χ	Χ		Х						Х																			
Fire Suppression	1(4)(s)											X						Χ													Χ					Х	
Electrical systems monitoring	1(4)(z)											Х			Χ	Χ		Χ																			
Division 26 - Electrical Systems	7.7																																				
UPS Systems	7.7.8												Х					Х	Х	х		>	X	Х	Х		Х					х	Х	X 2	х	Х	
Lighting Control Systems	7.7.14																	Х			x				Х									Х			
Pneumatic Tube System				\neg	\neg													Х																			
Electric Vehical Supply Equipment (EVSE)																		Х																			
Elevators management				_		_												Х													Х	Х		\vdash	\vdash		X
Division 27 - Communications	7.8						_												l						-						,,,				\vdash		1 7
IM/IT Data Network	7.8.11			_								_							Х	Y	х	: X	.	Х	Х	Х			Χ					\vdash	$\overline{}$	х х	
IM/IT Wi-Fi Network	7.8.11			\dashv	\rightarrow	+	+	-				+	+	_							X	' '		_ ^	_ ^	^			^			-		\vdash	+	\ 	+
IM/IT Voice Network	7.8.12			-	_	+-						+	+-					+			X			Х	Х				Χ					+	+	x	+
Multimedia Infrastructure and Systems	7.8.15			\dashv	\rightarrow	_	+	-				+	+	_				+			^	-	-	_ ^	_ ^	Х			^		Х	-		\vdash	+	`	+
Digital Wayfinding	7.8.16			\dashv	\rightarrow	_	+	-				+	+	_				+	\vdash				-			X					X	-		\vdash	+	+-	+
Digital Wayimanig Digital Signage	7.8.17			-	-	+-	+					+	+					+		+					Х	^					^			+	+	+	+
Patient Physiological Monitoring System	7.8.17			\dashv	\rightarrow	_	+	-				+	+	_				+	\vdash	+	+				X				Х			-		\vdash	+	+-	+
Public Address System	7.8.19			\dashv	\rightarrow	_	+	-				+	+	_				+	\vdash	+	+	+			X				^		Х	-		\vdash	+	+-	+
Nurse Call Systems	7.8.20			_		_							+					_										Х	Х		X		Х	x :	х	+	v
Clock System	7.8.21			\rightarrow	_	_						+	+					_		+	+	+	+					^	^		^		^	^ +	\vdash	+	
Distributed Antenna System (DAS)	7.8.22			_		_							+								_	_												\vdash	+	+	_
CATV	7.8.23			_		_							+								_	_												\vdash	+	+	_
Real Time Locating Services (RTLS)	7.8.24			\dashv			+					+	+					_		+	_	_	+	+	+								Х	+	+	+	_
Division 28 - Electronic Safety and Security	7.9																																^		+	+	_
Fire Alarm System	7.9.3																															Х		\neg			
Access Control System	7.9.4			+	_	+						+-	+					+		-	+	+	+	+	+							^		+	+,	хх	X
Wireless Staff Panic Duress System	7.9.4				H															+														Х	+	<u> </u>	
Fixed Panic Duress System	7.9.5			\pm	+															+														^	×	X	
Intrusion Detection System	7.9.5				H															+																X	
Intercommunications System	7.9.8				H															+																X	
IP Video Surveillance System	7.9.9																			+														+			X
Patient Wandering System	7.9.10																			+														+	H		^
Fatient wandering system	7.5.10																																				

Notes

- 1. Integration with Authority's systems and applications are not identified in the matrix above. Refer to Schedule 1 for requirements relating to integration requirements with Authority systems.
- 2. Section 7.8.25 entitled "System Integration" is not identified in the matrix above as it is generally applicable to the entire integration scope. Refer to Schedule 1 for further details.
- 3. This matrix is to be used as a summary of integrations. If there is a discrepancy between this chart and the Schedule 1 Statement of Requirements (SOR), the SOR takes precendence and supercedes this matrix.