Bluebird ND0H Quick Start



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Introduction to the Bluebird DOH Surveillance and Case Management System



This short *Quick Start* manual outlines the basics a nDOH User needs to understand in order to begin using the **Bluebird DOH Surveillance and Case** Management System.

This software is being *actively developed* and new versions of this quick start will be available on <u>intelms.com/397</u> as new functionality is added. Please ensure you are using the latest download of this document.

Please feel free to pass on suggestions as to how this software should be improved to the **NDoH COVID-19 Project Owner** (Milani Wolmerans) who will vet those suggestions before passing them on to <u>darryl@intelms.com</u>.

The current version only allows a high level view of COVID-19 lab surveillance data in South Africa. The specification for individual case management is included in this manual even though that module is still in development.

A later version will better organize the dashboard graphics interface which has grown substantially over the last 3 weeks and is now too large to show all graphs on a single page without a long page loading time.

The version which is expected to be live by Thursday (16 April 2020), will allow a drill down to individual patients and individual test results.

The version after that will integrate data collected by GovChat and will thereby automate much of the manual data collection.

The last version currently in planning will allow different access for different DOH Users from the Minister down to the ward level.

Overview of the Solution



Each new contact is a new PUI - GovChat needs to remove duplicates and allocate a unique ID so BCX-T needs to provide enough demographic data to do this

Log-In

Open your browser to this URL: <u>bluebird.co.za/bbw</u>

<u> Bluebird </u>	Sign In
or support please contact	
د 087 551 7644 support@bluebird.co.za	Welcome
8am - 5pm Monday to Friday	Sign in
Browser name: Chrome Browser version: 80.0.3987.163	
Bluebird Version: v4.0.1	Username dohzz
	Password
Clicking the phone brings up	DoH/Doctor Netcare Clinix NMCH Lenmed EHHC
support contact details.	DoH Users and Doctors please use the DoH/Doctor radio-button
the browser you are using and	Sign in
the current version of Bluebird	

After typing in your User name and Password, ensure the DoH/Doctor radio-button is selected and click the **Sign In** button.

Sign in	
Username	dohzz
Password	•••••
OoH/Doctor	🔘 Netcare 🔘 Clinix 🔘 NMCH 🔘 Lenmed 🔘 EHHC
DoH Users	and Doctors please use the DoH/Doctor radio-button
DOH Users should select the DoH/Doctor radi	o-button

Once the NDoH Authentication server is Bluebird enabled, a separate NDoH radio-button will be available for all NDoH users and all the hospital Users that the NDoH wishes to enable.

Home Page

After logging in you will see the page below which is a list view that shows the totals of all the patients tested up until this point in time (and, in brackets after the patients tested total, a total of all the tests done thus far).

The number of patients that have tested positive (and the number of positive tests in brackets) is shown as well as the total number of positive patients that the the labs have reported in the last day and in the last week. Note that the last 2 totals are based on the date the results were released, not the date on which the sample was collected.

Notes

1. If a specimen was collected 8 days ago but was only reported by the lab in the last 24 hrs it will be counted in both the last day and the last 7 days columns.

2. The message at the top right of the blue bar is not longer showing. We have implemented a workaround that fixes much of the poor demographic data coming from the various labs. Going forward, GovChat will be collecting more accurate data on their PUI forms and will be sending that to Bluebird in real time.

🗸 Bluebird		Pt. locati	on data coming from la	bs is inaccurate - ignore provincial breakdown until we have a workaround 🔍 🌣 📔 🔒
COVID 19 27 March 2020 16:51	Patients Tested	+ve	+ve last 1 / 7	+ve last 7 / 7 Dashboard Map
Province	29414 (31488)	1173 (4%)	531	1040
Western Cape	272	16 (6%)	0	11
Vrystaat	3	0 (0%)	0	0
Unknown	21979	803 (4%)	520	734
Northern Cape	15	0 (0%)	0	0
North West	175	12 (7%)	0	12
Mpumalanga	126	3 (2%)	0	1
Limpopo	125	1 (1%)	0	1
KwaZulu-Natal	1190	63 (5%)	3	56
Gauteng	5402	262 (5%)	8	214
Free State	108	9 (8%)	0	8
Eastern Cape	19	4 (21%)	0	3

					Click the padlock to log off
					Click the gear to open Preferences
∿ Bluebird		Pt. lo	ocation data coming fro	om labs is inaccurate - igi	nore provincial breakdown until we have a workaround 🔍 🌣 🔒
COVID 19 27 March 2020 16:51	Patients Tested	+ve	+ve last 1 / 7	+ve last 7 / 7	Dashboard
Province	29414 (31488)	1173 (4%)	531	1040	
Western Cape	272	16 (6%)	0	11	
Vrystaat	3	0 (0%)	0	0	
Unknown	21979	803 (4%)	520	734	
Northern Cape	15	0 (0%)	0	0	
North West	1/5	12 (7%)	0	12	
Click the telephone icon to	125	3 (2%)	0	1	The search icon allows one to filter by
get support contact details	1190	63 (5%)	3	56	select information and then manage
Gauteng	5402	262 (5%)	8	214	cases at an individual patient level.
Free State	108	9 (8%)	0	8	The icon is currently greved out
Eastern Cape	19	4 (21%)	0	3	because this module is not vet live.
					When it turns white you will know it is available

Changing passwords. For the initial, temporary User Names and Passwords that Bluebird will supply (as distinct from the NDoH authentication system UN and PWs that will be used after the first week), a password change is forced on first Log-in.

Bluebird		Pt.	location data coming fron	n labs is inaccurate -	ignore provincial breakdown until we have a workaround	Q 🕈
COVID 19 27 March 2020 16:51	Patients Tested	+ve	+ve last 1 / 7	+ve last 7 / 7	Dashboard	
Province	29414 (31488)	1173 (4%)	531	1040		
Vestern Cape	272	16 (6%)	0	11		
rystaat	3	0 (0%)	0	0		
nknown	21979	803 (4%)	520	734		
orthern Cape	15	0 (0%)	0	0		
orth West	175	12 (7%)	0	12		
umalanga	126	3 (2%)	0	1		
проро	125	1 (1%)		Click the c	gear icon to see this page	
aZulu-Natal	1190	63 (5%)				
uteng	5402	262 (5%)		Bluebird_u	ists Reports	
e State	108	9 (8%)				
tern Cape	19	4 (21%)				
				Customization First name Last name Email Cell Password	Darryl ICC Change Password	
			С	lick the red	link to change your password	

Click to open a **new browser tab*** with all cases on a map of South Africa. One is able to zoom in down to street level

🕻 Bluebird		Pt. loc	ation data coming f	rom labs is inaccurate - ign	lore provincial breakdown until we have a workaround 🔍 📕 🛯 🔒
COVID 19 27 March 2020 16:51	Patients Tested	+ve	+ve last 1 / 7	+ve last 7 / 7	Dashboard Map
Province	29414 (31488)	1173 (4%)	531	1040	
Western Cape	272	16 (6%)	0	11	
Vrystaat	3	0 (0%)	0	0	
Unknown	21979	803 (4%)	520	734	
Northern Cape	15	0 (0%)		0	
North West	175	12 (7%)		12	
Mpumalanga	126	3 (2%)		1	
Limpopo	125	1 (1%)		1	
KwaZulu-Natal	1190	63 (5%)		56	
Gauteng	5402	262 (5%)		214	With all the new visualizations we
Free State	108	9 (8%)		8	have added there is now too much on
Eastern Cape	19	4 (21%)		3	this page so it loads a little slowly* -
		We have deve help fix poor da work out the pa better as it le reduced the un	eloped an a ata entry by tient addre arns but ha nknowns to	lgorithm to the lab and ss. This gets as already below 200	we are in the process of redesigning the interface to display graphics on different pages

* Both the Dashboard and the Map open on new tabs in your browser. This is to allow you to keep the list view (your primary workspace) open and simply close the dashboard or map browser tab when you are done with the graphics.

The one problem with this approach arises if you do not refresh your browser periodically, one tab might be a few minutes behind the others and show subtly different figures.

Dashboard

Clicking the "Dashboard" button will open in a NEW browser tab (close this browser tab to exit the dashboard).

In future versions, we will be reorganizing the Home Page because, at present, with all the recently added visualizations, the dashboard page is loading slower than we would like.

Here is the original dashboard which used visualizations suppled (with permission) from <u>mediahack.co.za</u> and which we modified to use real time data. We have steadily been replacing this starter pack of graphs with ones purpose built by our visualization team to use live data feeds. Only the older graphics are used in this manual so as not to display current confidential data.



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Мар

This will open in a NEW browser tab (close the browser tab to exit the dashboard). This is page is also showing an old version of the Map so as not to display current data.



Note: This map is **interactive** and one can use the + button on the bottom right to drill down to the street level.

Hospital Dashboard

This is the Californian dashboard that we are adapting for South Africa. This work is still in progress and we might find an even better way to do this.



COVID-19 Hospital Data

Accessing the Case List

Clicking the search icon allows one to construct an individualized case list in real time. Different Roles might only be able to see subsets of data, for example a field worker at the ward level will only see individuals for that ward.

Sluebird					Q ¢ I A
COVID 19 27 March 2020 16:51	Patients Tested	+ve	+ve last 1 / 7	+ve last 7 / 7	Dashboard Map
Province	29414 (31488)	1173 (4%)	531	1040	
Western Cape	272	16 (6%)	0	11	
Vrystaat	3	0 (0%)	0	0	
Unknown	21979	803 (4%)	520	734	
Northern Cape	15	0 (0%)	0	0	
North West	175	12 (7%)	0	12	
Mpumalanga	126	3 (2%)	0	1	
Limpopo	125	1 (1%)	0	1	The search icon allows one to filter by
KwaZulu-Natal	1190	63 (5%)	3	56	select information and then manage
Gauteng	5402	262 (5%)	8	214	cases at an individual patient level.
Free State	108	9 (8%)	0	8	The icon is currently greyed out
Eastern Cape	19	4 (21%)	0	3	because this module is not yet live.
					When it turns white you will know it is available

 ✓ Bluebird << Back 	Province		Include -ve	Q 🗢 🗆 🔒
COVID 19 12 April 2020 10:00	Patients Tr Gauteng KwaZulu-Natal			Dashboard Map
Province	Limpopo Mpumalanga			
Western Cape	Northern Cape Western Cape			
Northern Cape	First Name	Last Name		
Mpumalanga	Start Date	End Date		
Limpopo	Lab name	Co Morbiditie	es	
KwaZulu-Natal	All Labs	All Co Morbidit	ties 📀	The search icon allows one to
Gauteng	Doctor			construct a Case List and then
Free State				manage cases at an individual
	Clear	Cancel	Find	patient level.

This search box needs more input from the NDoH, we think it would be helpful to be able to search by ward, local municipality, district municipality...

The image on the following page shows a magnified of the search box:

Province	
All provinces	Tinclude -ve
City	
All Cities	₹
ID / Passport / Req No.	Date of Birth
First Name	Last Name
Start Date	End Date
Lab name	Co Morbidities
All Labs	All Co Morbidities
Doctor	
Clear	Cancel

Once the appropriate cases have been found, they will be displayed as a Case List (individual patients) on the left pane in the image below. Selecting any of these patients will show detail about that individual patient on the right pane (which is highlighted in red in the image below).

Note that the top of the right pane has a button that allows one to add a new Person Under Investigation and below that button is a bar showing the selected patient name, their cell phone number and province and whether they have ever tested +ve for COVID-19.

Bluebird <	< Back								Q *	16
Patients										
All provinces	All Cities	\$ Ne	gatives						Add PUI	
Arrived Collected	Patient	DOB	Lab	Country	Province	City	нсw	Date 1st +ve	Theart, Bianca 021 594 2054 Gauteng +	
09/03/2020 11/03/2020	Roux, Gieljam Johannes 1002938602 8212225110082	17/12/1982 Age: 37 Gender: M	AMP	South Africa	KwaZulu- Natal	Berea	No	09/03/2020	Patient C19Tests Clinical Contacts Management Outcome Doctor Occupation (tick all that apply):	
11/03/2020 11/03/2020	Theart, Bianca 1002140064 9508280000000	28/08/1995 Age: 24 Gender: F	DSP	South Africa	Gauteng		Yes	11/03/2	Health laboratory worker Unemployed Other dency:	
11/03/2020 11/03/2020	Buys, Jacques 1002036737 7207145061085	14/07/1972 Age: 47 Gender: M	Lancet		Gauteng		Yes	11/03/2020	9508280000000 Current residential address: Unit Number	
13/03/2020 13/03/2020	Fabris, Anthony George 1000912982 5012225026087	22/12/1950 Age: 69 Gender: M	Vermaak		Western Cape		No	13/03/2020	Street number and Street City Gauteng	
15/03/2020 15/03/2020	Oosthuizen, Mathys Gerhardus 1002249331 6001265104085	26/01/1960 Age: 58 Gender: M	AMP		Gauteng		No	15/03/2020	Patient's primary contact number(s) Alternative 0836036411 Number of children in the household	
16/03/2020 16/03/2020	Marais, Berno Daniel 1002903529 9801180000000	18/01/1998 Age: 22 Gender: M	DSP		Free State		No	16/03/2020	Number of elderly (≥60 years) in the household	
18/03/2020 18/03/2020	McHunu, Lindiwe 1001939805 5406250621087	25/06/1954 Age: 65 Gender: F	Hain		Mpumalanga		No	18/03/2020	Next kin contact details First Name Surname	
23/03/2020 23/03/2020	Bloggs, Onomatopoea 1002100420 7001080019087	01/08/1980 Age: 39 Gender: F	Lancet		Northern Cape		No	23/03/2020	Relationship to Patient Contact	
25/03/2020 25/03/2020	Mabaso, Ntombiza Liza 1000367172 5307030477081	03/07/1953 Age: 60 Gender: F	AMP		Limpopo		No	25/03/2020	Add Travel history	
									Country visited City visited Ci	
_			_	_						

The following pages will focus on each tab inside the red rectangle, starting with the "Patient" tab.

This tab shows patient demographics, next of kin and travel history.

Note: Please understand that these images are based on the specification currently being used by the Bluebird development team and the images are a little rough. These will be replaced with actual screenshots as this module goes through the development and quality assurance processes.

Patient C19Tests	Clinical Contacts	Management	Outcome	Doctor		
Occupation (tick all that Large Group Stu	t apply): dent/scholar	- Working with a	nimals		нсш	
Health laboratory worke	er 🗌 Unemploye	ed Other				
Residency:						
o SA resident 🗆 Non-SA	resident					
950828000000						
Current residential addr	ess:					
Unit Number						
Street number and Stre	et					
City						
Gauteng						
Patient's primary contac	ct number(s)		Alternative			
0836036411						
Number of children in t	he household					
Number of elderly (>60	vears) in the househ	bold				
Next kin contact d	etails		Surname			
Relationship to Patient			Contact			
Select Relationship 🗘						
Add						
Travel history						
If patient traveled outside Sc	outh Africa in the last 14-	days, please comp	lete section belo	ow for countries	visited	
Country visited	City visited	Date area)	of departure (travel to	Date of return (travel fro area)	m
Add					Save	•

The C19 Tests tab lists all the COVID-19 tests on on this patient by collection date and gives the result.

Clicking any individual line will pop open the full lab report for that specific test.

Theart, Bianca		0	21 594 2054	2054 Gauteng				+
Patient C19	Tests	Clinical	Contacts	Management	Outcome	Doctor		
CollectionDate				ReleaseD	ate	Result		
11/03/2020				28/03/2020				
			Clic	k lab line to ope	en full lab rej	port		
Lab Report - Theart, Bianca 24 F								

The Clinical tab is where all the relevant clinical information documented about this patient is displayed.

Note that much of this wil be collected by the GovChat interface and then automatically be displayed here.

S Clinical ARDS Ventilated Fatigue Headach Nausea	Contacts We 67 Abno	Manageme ight (kg) rrmal CXR	outco	me Doctor			
ARDS Ventilated Fatigue Headach Nausea	We 67 Abno	ight (kg) rrmal CXR					
ARDS Ventilated Fatigue Headach Nausea	Abno	ormal CXR					
Fatigue Headach Nausea		Dry coud	_				
Fatigue Headach Nausea		Dry coud	_				
Fatigue Headach Nausea		Dry coud					
Headach Nausea			ıh 🗌	Myalgia			
Nausea		Dizzines	5	Abdominal	pain		
		Vomiting		Chills			
			~ · · · ·				
Car	diac disease		Chronic kidi disease		Chronic liver disease		
					Immuno-		
	PD/ Chronic monary disea		Diahetes		deficiency (excluding HIV)		
put	no nationt	3C I	Jubeces		(executing Thy)		
vira	lly suppresse	d' 🗌 🕠	On ARVs		Obesity		
Tub	erculosis						
						Sav	e
tient	Title	Note					
eart, Bianca 08280000000	Ward Visit	Ward	was visited fo	the sake of the	patient's health		
eart, Bianca 08280000000	Patient Visit	Patier obser	nt will be visite ved for this pa	d by sibling toda tient.	y. Contact precaution	ary measures i	nust b
	Car CO pulu Is th vira Tub tient tient eart, Bianca 08280000000	Cardiac disease COPD/ Chronic pulmonary disea Is the patient virally suppresse Tuberculosis tient Title eart, Bianca 08280000000 Ward Visit eart, Bianca 08280000000 Patient Visit	Cardiac disease (COPD/ Chronic pulmonary disease II) Is the patient virally suppressed (COPD/ Chronic pulmonary disease II) Is the patient virally suppressed (COPD/ Chronic pulmonary disease II) Is the patient virally suppressed (COPD/ Chronic pulmonary disease II) Is the patient virally suppressed (COPD/ Chronic pulmonary disease II) Tuberculosis (COPD/ Chronic pulmonary disease II) Tuberculosis (COPD/ Chronic pulmonary disease II) Tuberculosis (COPD/ Chronic pulmonary disease II) tient Title Note eart, Bianca (COPD/ Chronic pulmonary disease II) eart, Bianca (COPD/ Chronic pulmonary disease II) Patient Visit Ward eart, Bianca (COPD/ Chronic pulmonary disease II)	Cardiac disease Chronic kidr COPD/ Chronic Diabetes pulmonary disease Diabetes Is the patient On ARVs Tuberculosis On ARVs tient Title Note eart, Bianca Ward Visit Ward was visited for eart, Bianca Patient Visit Patient will be visite	Cardiac disease Chronic kidney disease COPD/ Chronic pulmonary disease Diabetes Is the patient virally suppressed On ARVs Tuberculosis On ARVs tient Title Note eart, Bianca 08280000000 Patient Visit Patient Visit Patient will be visited by sibling today observed for this patient.	Cardiac disease Chronic kidney Chronic liver COPD/ Chronic Immuno- pulmonary disease Diabetes Is the patient Diabetes virally suppressed On ARVs Tuberculosis On ARVs	Cardiac disease Chronic kidney Chronic liver disease disease disease COPD/ Chronic Diabetes Immuno- pulmonary disease Diabetes excluding HIV) Is the patient On ARVs Obesity Tuberculosis On ARVs Obesity Save tient Title Note eart, Bianca 08280000000 Ward Visit Ward visit Ward was visited for the sake of the patient's health Observed for this patient.

The Contacts tab shows
individuals that have been
in contact with this
patient.

Theart, Bi	anca	0	21 594 2054		Gauteng		+
Patient	C19Tests	Clinical	Contacts	Management	Outcome	Doctor	
No cont	acts record	led.					
Add							
Contact Fo	orm - Theart, Bia	anca 24 F					×
Contac	t Detail						
First Nam	ie				Last Name		
Contact	date				Contact num	lber	
Sex 🔿	Male 🗠 Fema	ale	Age		HCW		
Relation	to case						
Select r	elaltion			\$			
Resident	aladdress						
Place na	me						
Unit Nur	nber						
Street nu	umber and Sti	reet					
City							
Province							
Canc	el						Save

The management tab shows how this patient has been managed over time.

Theart, Bianca	021 594 2054	Gauteng	+
Patient C19Tests	Clinical Contacts	Management Outcome	Doctor
Date of Onset Not Isolated Iso	olated at Home 🗌 Iso	lated at HCF 📄 Other 📄	Save

The Outcome tab shows the documented outcome at any point in time.

Patient C19Tests Clinica	Contacts Management	Outcome	Doctor
Date of Onset			
Hospitalized Discharged	Transferred Recovere	d 🗌 Died	
Add			Save

This tab allows one to add doctors associated with this patients care.

Patient C19Tests Clinical Contacts Ma	nagement Outcome Doctor
Doctor Detail	
Doctor	Facility Name
Email address	Contact number/s
Add	Save
Add	Jave

Appendix 1: Steps that need completion by the NDoH

NDoH COVID-19 Project Owner

Please nominate the person that will be driving this project from the NDoH side and email full contact details including cell phone and email to <u>darryl@intelms.com</u>.

It will be ideal if this person has WhatsApp so we can send confidential information via a channel that supports end to end encryption. Until the NDoH **Authentication Gateway** is enabled, *only* the NDoH COVID-19 Project Owner will be supplied with temporary User Names and Passwords and WhatsApp will be the channel used by IMS to convey those temporary User Names and Passwords to the NDoH COVID-19 Project Owner.

The NDoH COVID-19 Project Owner will need to specify the end users that the NDoH wishes to give access to the **Bluebird DOH Surveillance and Case Management System** Users, as well as the level of access (which is role specific so roles need to be specified). IMS will need help defining those roles, but I suspect that they should be based on the NDoH geographic breakdown right down to a ward level and that users should only be able to see individual patients that fall under their geographic region? Our suggestion as to roles would therefore be:

- National (members of the National Outbreak Response Team)
- Provincial (members of the Provincial Outbreak Response Team)
- District municipality (District Surveillance Officers)
- Sub-District (Local municipality)
- Ward

Please see the **User Take-On** section below.

The NDoH COVID-19 Project Owner will also need to decide what dashboard information each role has access to, but our suggestion would be that only the National "role" has access to the current dashboard and map (later, we might be able to base dashboards on that User'e level of access so, for example, a district role would only see information pertinent to their specific district).

The NDoH COVID-19 Project Owner will also need to ensure that each hospital that the NDoH wishes to Bluebird enable (public and private) must be sent notification instructing them to become Bluebird enabled and to complete the relevant tasks specified under the **C19 Hospital User Take-On** and **Hospital Take-On** (**Blueprint**) sections below. Please c.c. those notification emails to <u>ITNewHospital@intelms.com</u> so Bluebird Operations can follow up if required.

Authentication Gateway

This a web service that allows Bluebird to authenticate End Users against the NDoH Active Directory (or the NDoH equivalent) without giving Bluebird operations staff direct access to the NDoH Active Directory. The authentication Gateway specification allows the **Bluebird DOH Surveillance and Case Management System** users and **Bluebird COVID-19 Hospital System** users to authenticate against the nDoH's Active Directory.

This specification is available at intelms.com/authentication

The Authentication Gateway is the mechanism that empowers the NDoH to manage the authentication process for NDoH users and the hospital users that the NDoH wishes to Bluebird enable including instant de-activation of End-Users.

Fetching the COVID-19 Data from Bluebird

The specification for the API to fetch COVID-19 data from the Bluebird Server Cluster is available at <u>intelms.com/381</u> In order to access this API, the Authentication Gateway specification will first need to be implemented. The Authentication Gateway specification is available at <u>intelms.com/authentication</u> The COVID-19 Data API specification currently includes the data fields (in JSON format) for COVID-19 lab data. As per the Agreement, the additional data to be

retrieved by this specification needs to be specified by the NDoH and made available to IMS before the 11 May 2020.

NDoH User Take-On

The nDoH will need to complete the *specific* excel spreadsheet with the required details of each **user** that they wish to grant access to Bluebird. This specific excel spreadsheet can be found here: <u>intelms.com/ndohusers</u>

Please email the completed sheet to ITNewHospital@intelms.com

Please note that only this excel spreadsheet may be used (it is specifically designed for machine processing, the volume is too high to do this by hand).

C19 Hospital User Take-On

Each hospital that the NDoH wishes to Bluebird enable will need to complete the *specific* excel spreadsheet with the required details of each **user** at that hospital that the NDoH wishes to give Bluebird access. This specific excel spreadsheet can be found here: <u>intelms.com/c19users</u>. Please note that the NDoH needs to give Usernames (from their active directory) to each of these hospital Users.

For now there will only be x 4 hospital Users per hospital and the "role" will be: C19 Admin

Please email the completed sheet to ITNewHospital@intelms.com

Please note that *only* this excel spreadsheet may be used (it is specifically designed for machine processing, the volume is too high to do this by hand).

Hospitals are limited to 4 users at this time, if more than 4 are supplied, the additional Users will be ignored.

Hospital Take-On (Blueprint)

Each Hospital that the NDoH wishes to Bluebird enable will need to complete the *specific* excel spreadsheet with the ward, room and bed detail. The specific excel spreadsheet can be found here: <u>intelms.com/c19blueprint</u>

Please email the completed sheet to ITNewHospital@intelms.com

Please note that only this excel spreadsheet may be used (it is specifically designed for machine processing, the volume is too high to do this by hand).