

Office of the Chief Information Officer
delivering eHealth Ireland,
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12th November 2021

Mr. Thomas Gould TD Dáil Eireann Leinster House Dublin 2

Re: PQ ref 53919/21

"To ask the Minister for Health the percentage of databases recovered since the HSE cyberattack."

Dear Deputy Gould,

1. Background

- 1.1 The cyber-attack was logged with the Office of the CIO on 14th May 2021. The HSE convened the National Crisis Management Team to co-ordinate and manage the HSE response to the attack through a Cyber Security Incident Response Team. The HSE informed the relevant authorities including the Data Protection Commissioner, an Garda Síochána and the National Cyber Security Centre. In addition, the Defence forces were also informed.
- **1.2** The CEO convened and chaired the National Crisis Management team who oversaw and managed the HSE response to the Cyber Attack.
- 1.3 The HSE engaged several partner organisations, Mandiant Fireeye a global specialist in cyber recovery and defence and a number of the professional services firms. Legal advisers who specialise in cyber-attacks were also engaged. The HSE recovery team included regional and national employees from the operational service, clinical and ICT. The focus was the safe delivery of patient care. The cyber security response contained four stages/phases and the current status is set out below:-
 - The Contain Phase Contain the spread of the ransomware and its impacts
 Status: complete

- ii. The **Inform Phase** Ensure that all stakeholders internal and external are fully informed on the impacts and the recovery efforts
 - **Status: complete** a weekly update is provided all the operations acute group CEO's and CHO's leads
- The Assess phase Restoration of services and eradication of ransomware and potential bad actors from the HSE and voluntary network,
 Status: 99% complete
- iv. The Remedy Phase Strengthening our network against future cyber treats, increasing the cyber profile of the HSE and applying the lessons from the present attack

Status: Ongoing the Mandiant recommendations are being implemented and the HSE has deployed 3 security operations centres, Microsoft for our 365 tenant, Caveo for our Anti-Virus Defence and Mandiant Cyber Security Defence.

2. Current Status

2.1 The prioritisation of systems to be restored was agreed in conjunction with the Chief Operations Officer and the Chief Clinical Officer. The approach to prioritisation was on a hierarchy of clinical and operational risk and to reflect the requirements of the service and is outlined in the table below, across Community, Acute and Business/Corporate services and national enablers:-



- **2.2** All of the priority systems have been restored and are functional.
- 2.3 In any cyber-attack, based on international learning, there is always a long tail of individual items that remain to be resolved. The HSE is working through these in a systematic manner however good progress has been made in resolving these.

2.4 Remote access for or staff and vendors is fully restored with the addition of additional cyber security measures to enhance the protection of our systems.

2.5 Email services are fully available in areas which had Microsoft Outlook, the two areas which used Lotus Notes are migrating to Microsoft Office. Email system are now fully functional for

outlook users and are now treated as 'business as usual'. Lotus notes users are over 97% successfully migrated to outlook. The Remote Hubs commenced in the following Hospitals

Louth, Monaghan, Navan, Cavan, Sligo, Letterkenny. Hubs continued until 22nd October to

finalise the migration. Lotus notes migration has moved to a 'business as usual' mode of operation. In addition, the Lotus Notes archive mail is now available for all users. Microsoft

Office archives are being restored on a user request basis. The HSE ICT Service Desk is

available to manage any issues that may arise with emails on an ongoing basis.

2.6 The maternity system in the North-East was one of the systems which was problematic during the restoration. The system is now technically available and work is ongoing with the user

community to test, validate and deploy it.

2.7 Healthlink services are fully technically available, the service has processed over 7.5 million

messages since restoration of services in early June. The services in Healthlink include:-

 GP Messaging (PCRS reimbursement, GP Vaccinations, GP General Referrals, Covid Testing, Lap Orders, Chronic Disease Management, GP Vaccine Referrals and Social

Welfare Sick Certificates)

ii. Individual Health Identifier Service

iii. Pharmacy Vaccinations

iv. Discharge Summary Notifications

I would also like to acknowledge the enormous efforts that HSE staff from every part of the organisation played during the cyber-attack, in order to continue to deliver health service while

recovering our ICT systems.

If you feel that the question has not been fully answered or you require any further clarity, please

contact me.

Yours sincerely,

Fran Thompson,

Interim Chief Information Officer, OoCIO, HSE.

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