



감염병 방역 물자 및 동선 추적관리 국제표준 (JTC 1/WG 11)

GISC 2021 - 글로벌 표준화기구 워크숍, 2021년 11월 11일, 서울 양재 엘타워



K-방역모델 국제표준화 - ETRI 수행



모바일 자가격리관리 앱(App)의 요구사항



자가진단 결과 및 문진 결과의 전자건강기록(HER) 간 연동 방법



감염병 확진자의 동선 추적을 위한 기능 요구사항 및 개인정보 보호 가이드라인



감염병 필수 진단기기.의약품. 방역품.개인보호장비(PPE)의 재고. 유통.물류 관리 플랫폼 요구사항

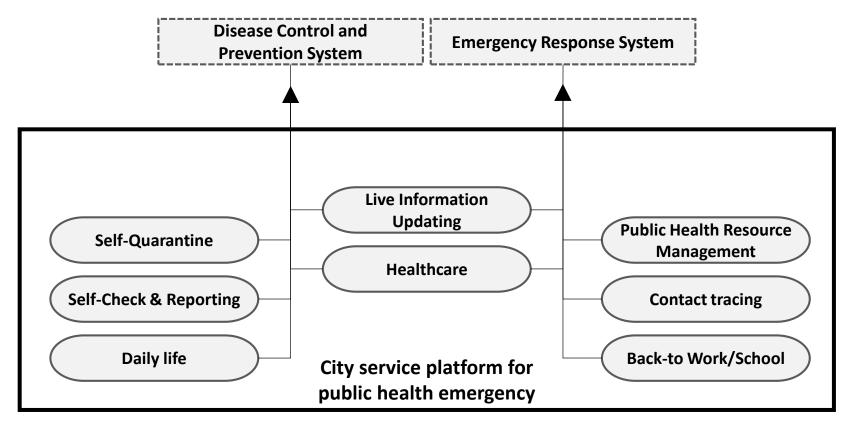


PHE 시티 서비스 플랫폼



ISO/IEC 5153

City service platform for public health emergencies

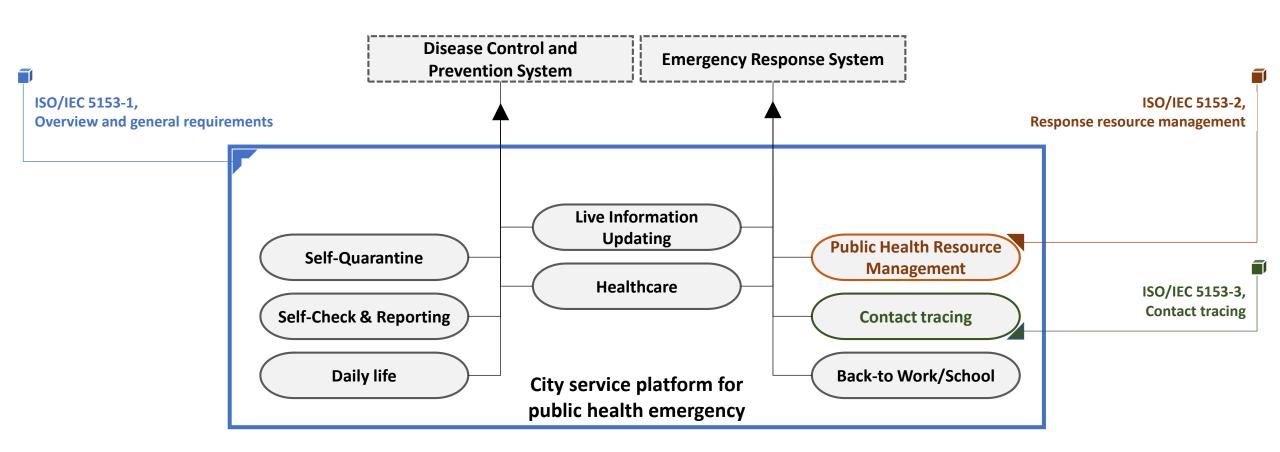






ISO/IEC 5153 구조







PHE 표준 맵

1111 2 J 3 A TEST TRACE TREAT

-Standards map-

ISO/AWI 5477 (TC215/WG2)

Health Informatics - Reference standards portfolio (RSP)-Public health emergency preparedness and response information system — RSP-PH EPR Information System

IEC SRD 63233-4 (SvC-SC)

Systems Reference Deliverable (SRD) -Smart City Standards Inventory and Mapping - Part 4: Guidance on standards for public health emergencies

Reference

JTC1 standards

ISO standards

IEC standards

ITU-T recommendation

Operating process model

Planned NP (TC 268/WG 4)

Sustainable Cities and Communities -Management guidelines for public health emergency response in smart city operating

Use case

ISO/AWI TR 37112 (TC 268/WG 4) IEC SRD 63347 (SvC-SC) Sustainable Cities and Communities - Good

Systems Reference Deliverable (SRD) practice case studies in how smart city Use Case Collection and Analysis — Management of Public Health Emergencies operating models support effective publicin Smart Cities

City Management

Self-check & Reporting

ISO AWI 6028 (TC304/WG4)

Pandemic response (respiratory) - Selfsymptom checker

PWI proposed (TC215/WG2)

Health Informatics — Integration protocol for external self-symptom check and questionnaire to electronic health record

Contact tracing

health emergency response

ISO/IEC WI 5153-3 (WG11)

Smart city — City service platform for public health emergency - Part 3: Contact tracing

Public healthcare

Back-towork/school

Resource

management

Smart city - City service platform for public

health emergency - Part 2: Management of

ISO/IEC WI 5153-2 (WG11)

public health resources

Live information updating

Daily life

Selfquarantine

Planned NP (SC41) Internet of things - Functional requirements to figure out the status of self-quarantine

Service

Requirements/Architecture

ISO/IEC AWI 5153-1 (WG11)

Information Technology — Smart city — City service platform for public health emergency – Part 1: Overview and general requirements

ITU-T Y.RA-PHE (SG20)

Requirements and reference architecture of smart service for public health emergency

Life-cycle Management

ISO/IEC NP 24748-9 (SC7)

Systems and software engineering — Life cycle management — Part 9: Application of system and software life cycle processes in epidemic prevention and control systems (NP: 2021-01-27 ~ 2021-04-22)

Data _

Consensus building stage for proposal (TC268/SC1/WG 4) Smart community infrastructures — Guidance on integrate information and linkage for community infrastructure under public health emergencies

Consensus building stage for proposal (TC268/SC1/WG 4) Smart community infrastructures -Framework for comprehensive use of public health emergency data

Architectural **Framework**



Part 1 현황



ISO/IEC AWI/WD 5153-1

City service platform for public health emergencies – Part 1: Overview and general requirements

Stage	Version	Description	Edit draft	Target date	Limit date	Started	Status
20.00	1	New project registered in TC/SC work programme				2020-08-05	Current
20.20		Working draft (WD) study initiated					Awaitin
20.60		Close of comment period					Awaitin
20.99		WD approved for registration as CD					Awaitin
30.00		Committee draft (CD) registered		2021-06-30			Awaitin
40.00		DIS registered		2022-05-03	2022-08-05		Awaitin
60.60		International Standard published		2023-05-09	2023-08-05		Awaitin



방역물품, 관리가 문제

1 1 2 5 3 A TEST TRACE TREAT

Coronavirus fears lead to worldwide mask shortages

By Hannah Zhang, CNN Business

Updated 2310 GMT (0710 HKT) February 7, 2020



CNN, Feb. 07, 2020

Health Care Workers Still Face Daunting Shortages of Masks and Other P.P.E.

Frontline medical personnel in hospitals urging the incoming Biden administration Production Act to increase manufacturing equipment.

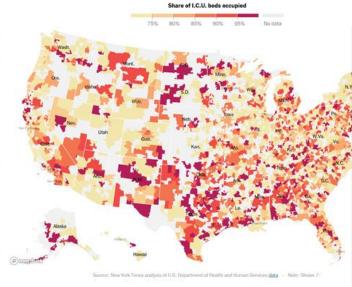




The New York Times, Dec. 20, 2020

'There's No Place for Them to Go': I.C.U. Beds Near Capacity Across U.S.

By Lauren Leatherby, John Keefe, Lucy Tompkins, Charlie Smart and Matthew Conlen Dec. 9, 2020



The New York Times, Dec. 09, 2020

California hospitals near breaking point as Covid cases soar

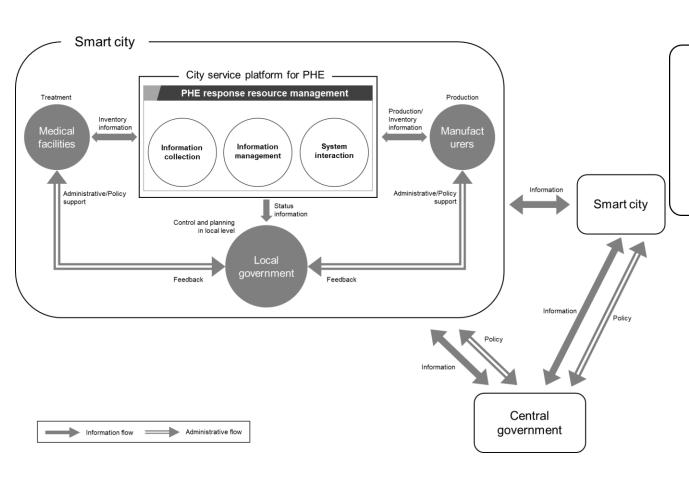
State short on ICU beds and healthcare workers amid 70% increase in ICU admissions in two weeks



People wait in line at a testing center in Los Angeles on Tuesday. Photograph: Frederic J Brown/AFP/Getty mages.

방역물품

1 TEST TRACE TREAT



- For protection -

Gloves Gowns/aprons

Masks/respirators

Goggles Face shields

For treatment

Hospital room ICU beds Temporary accommodation

HVAC system Negative pressure isolation room

Ventilator Assessment tool Vaccines Drugs



Part 2 현황

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ISO/IEC PWI 5153 - 2

City service platform for public health emergencies – Part 2: Response resource management



ISO/IEC JTC 1/WG 11 N 1312

ISO/IEC JTC 1/WG 11 "Smart citie Convenorship: SAC Convenor: Qian Heng Mr



Revised WD of PWI 10311-2 City service platform for public health emergencies
—Part 2: Response resource management-Clean version

Document type	Related content	Document date	Expected action
Project / Draft	Project: ISO/IEC PWI 10311-2	2021-10-01	INFO

Description

Submitted by Changkyu Lee.

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ISO/IEC #####-#:###(X)

ISO/IEC JTC 1/WG 11

Secretariat: ANSI

Information technology - Smart City - City Service Platform for Public Health Emergencies - Part 2: Response resource management

WD stage

Warning for WDs and CD

This document is not an ISO International Standard. It is distributed for review and comment. It is subject to change without notice and may not be referred to as an International Standard.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

To help you, this guide on writing standards was produced by the ISO/TMB and is available at https://www.iso.org/iso/how-to-write-standards.pdf

A model manuscript of a draft International Standard (known as "The Rice Model") is available at https://www.iso.org/iso/model_document-rice_model.pdf

ISO ####-#:###(X)

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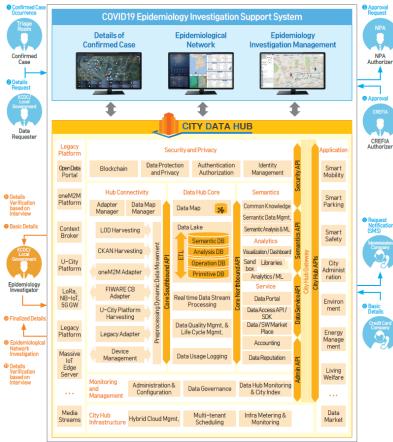
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1	Int	roductionv	V
1	1	Scope	1
2	2	Normative references	1
:	3	Terms and definitions	1
4	4	Overview2	2
	5	PHE response resource management in city service platform	3
	6	Functional requirements of PHE response resource management	1
	6.3	System interaction	1
		nex A (informative) Annex title e.g. Example of a figure and a table5	
1	Bib	liography	3



동선추적

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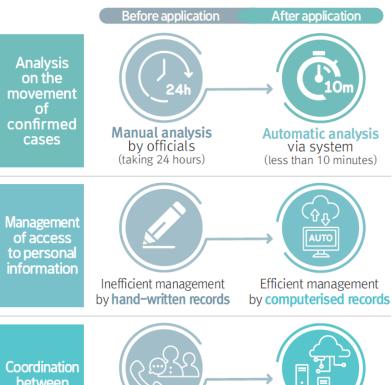




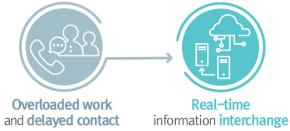






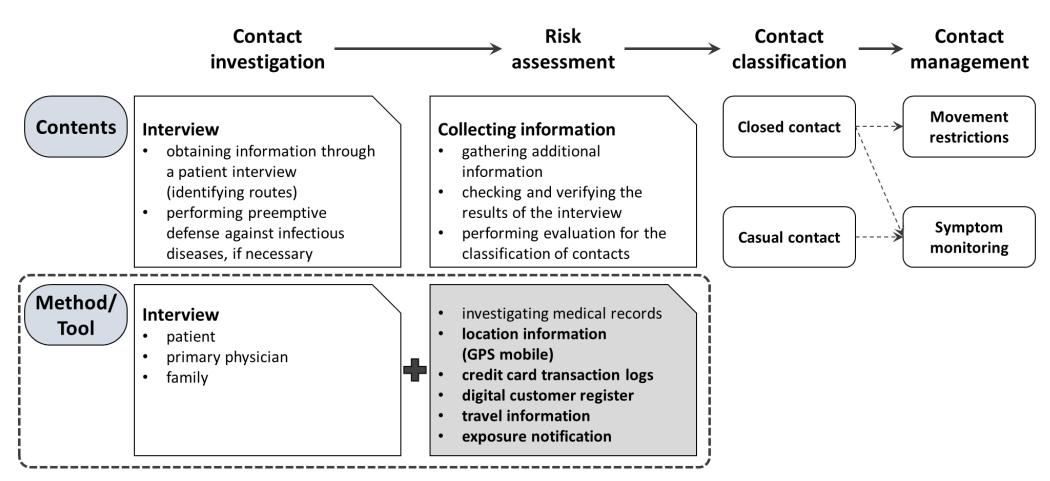


between organisations



동선추적

1 TEST TRACE TREAT





Part 3 현황



ISO/IEC PWI 5153 – 3

City service platform for public health emergencies – Part 3: Contact tracing

- 현재 상태
 - Pending PWI (일본 반대: 관련 주제가 ISO/TC 304에 해당)
- 활동 내역
 - AhG 11 설립 (Gap analysis, 컨비너: 유상근), 2021-09-10
 - 갭 분석 보고서 제출, 2021-09-30
 - 갭 분석 보고서 검토 및 JTC 1 총회 제출 결정, 2021-10-08



Part 3 현황: 갭 분석 보고서







Gap analysis report for potential ISO/IEC PWI 5153-3 (by the works of ISO TC 304/WG 4)

City service platform for public health emergencies - Part 3: Contact tracing

Source: Convenor, AHG 11 (Sangkeun YOO, ETRI/KATS)

Preparation of gap analysis report and further study for the potential project ISO/IEC 5153-3

ISO/TC 304/WG 4 – on going works

- ISO/DIS 5258, Pandemic response (Respiratory) Drivethrough screening station
 - Standardization of operating procedures of screening stations that can minimize cross-infection by measuring body temperature and quickly collecting samples while the test subject stays in a vehicle that is an independent space



- ISO/DIS 5472, Pandemic response (Respiratory) Walkthrough screening station
 - Standard protocols of walk-through screening stations that the test subject moves on foot and undergoes an examination
- Requirements and guideline for negative pressurized medical container





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ISO/TC 304/WG 4 – on going works

- ISO/CD 5741, Pandemic response Temporary Medical Facilities
 - Operating procedures of a temporary medical facilities that solve the problem of shortage of beds due to the rapid increase in infectious diseases and provides life support and treatment services for patients with mild symptoms

ISO/TC 304/WG 4 – on going works

- ISO/AWI 6028, Pandemic response Self-symptom checker
- Functional requirements for a self-initiated disease symptom checker to be used for early screening and control for pandemics such as Covid-19

ISO/TC 304/WG 4 – on going works

- ISO/AWI 6763, Pandemic response Social distancing and source control
 - Guidelines for personal hygiene management and social distancing in pandemic situation
 - Criteria to be followed by users and managers by social distancing guidelines
 - Non-pharmacological countermeasures to minimize contact between individuals and groups, etc.











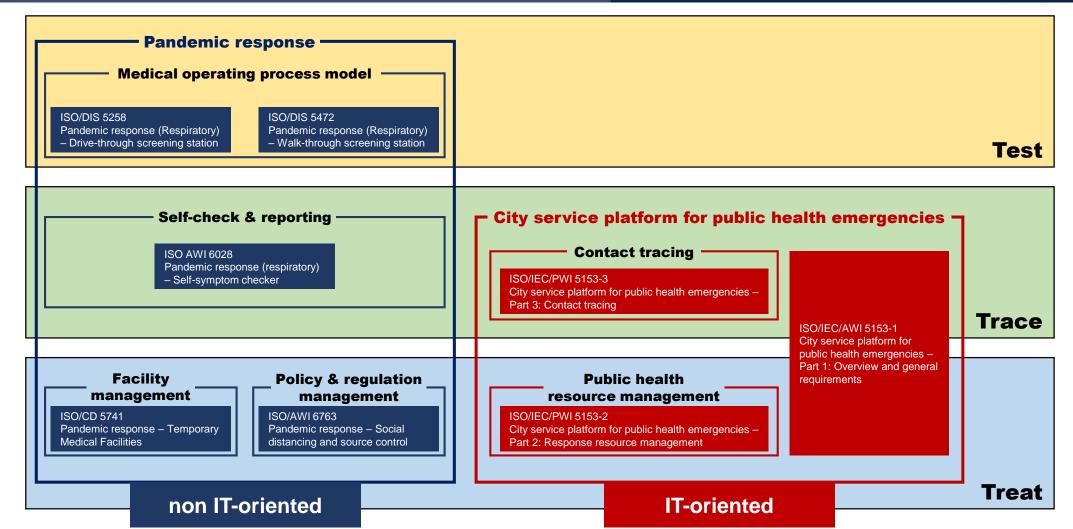


ETRI

Part 3 현황: 갭 분석 보고서









방역물품, 동선주적 - 표준화 현황



국내 위원회 (JTC 1/WG 11-K) 검토

•국내 위원회(WG11전문위원회) 대상 제안 발표('21.5)

WG 11 국제표준화

- WG 11 제안 발표 완료('21.6):
- ISO/IEC 5153 City service platform for public health emergencies -
- Part 2: Response resource management, Part 3: Contact tracing
- JTC 1 PWI 승인 요청('21.7)





향후 계획

- NP/WD 보완 및 WG 11 검토 ('21.12)
- WG 11 발표 및 NP 제안 ('21.12)
- 표준화 트랙 : IS



