

Session 4: panel discussion - Directions for future Verifiable Health Credentials and the future of JCA-DCC

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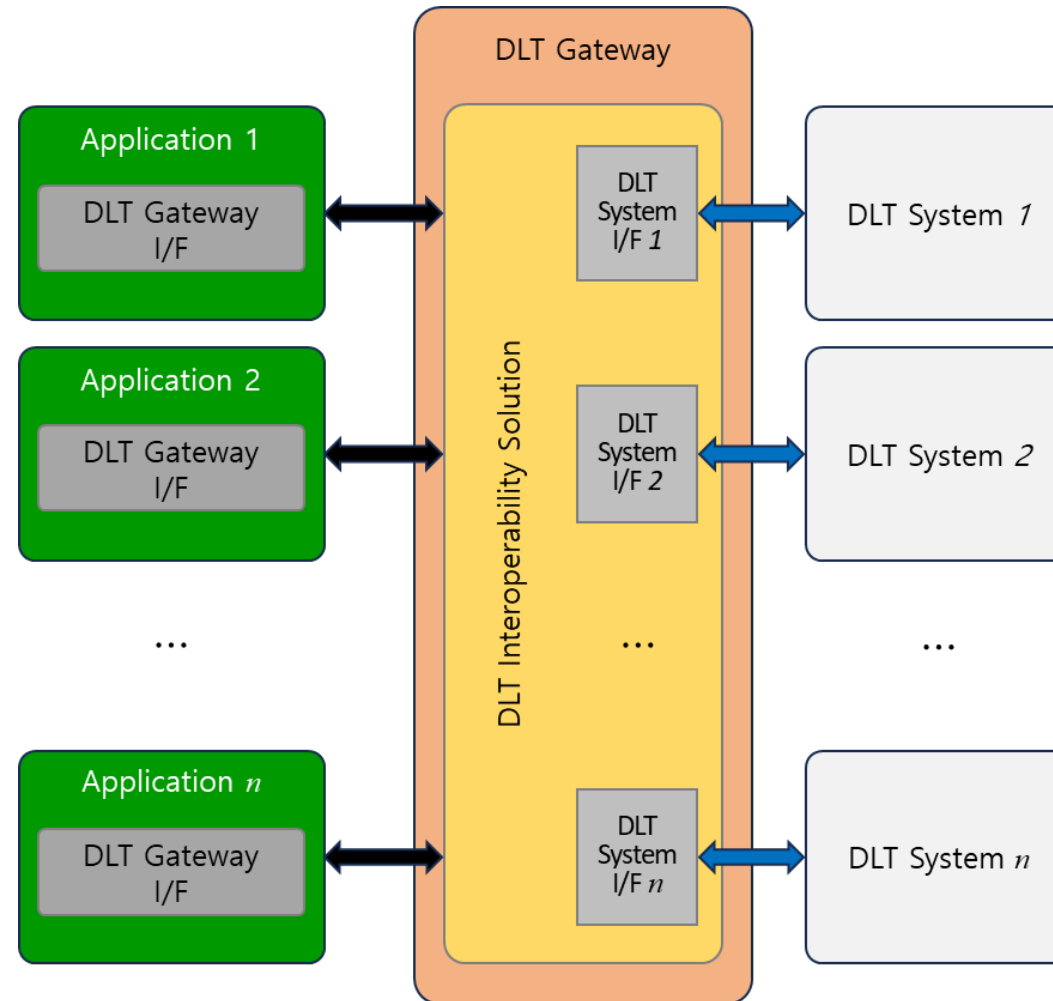
Standardization for interoperability between VHCs

- New work item established in ITU-T Q14/17 :
 - ITU-T X.DLT-dgi, Security requirements of DLT (distributed ledger technology) gateway for interoperability
- Scope of ITU-T X.DLT-dgi :
 - Concepts and security threats related to the DLT gateway to support interoperability among heterogeneous DLT system
 - Security requirements of the DLT gateway to ensure secure interoperability between different DLT systems
 - General procedures and use cases of the DLT gateway in aspect of interoperability of heterogeneous DLT systems
- This draft Recommendation would enable interoperability between verifiable health credentials (VHCs) using heterogeneous DLT systems



Standardization for interoperability between VHCs

- Overview of the DLT gateway for heterogeneous DLT system interoperability



Current works related to COVID-19 certificates

Work item	Subject/title	Timing
X.1277.2 (ex X.uaf12)	Universal Authentication Framework (UAF) Protocol Specification - FIDO Alliance UAF v1.2 (Twin)	2023-04 Approved
X.1278.2 (ex X.ctap21)	Client to Authenticator Protocol - FIDO Alliance CTAP v2.1 (Twin)	2023-04 Approved
X.1250rev	Baseline capabilities for enhanced global identity management and interoperability	2024-03
X.1251rev	A framework for user control of digital identity	2024-09 Cancelled
X.accsadlt	Access security authentication based on distributed ledger technology	2025-09 New work item



Current works related to COVID-19 certificates

Work item	Subject/title	Timing
X.afotak	Authentication framework based on one-time authentication key using distributed ledger technology	2025-09 New work item
X.gpwd	Threat analysis and guidelines for securing password and password-less authentication solutions	2024-03
X.oob-sa	Framework for out-of-band server authentication using mobile devices	2023-09 Determined
X.osia	APIs for interoperability of identity management systems - OSIA v6.1.0 (Twin)	2023-09 Determined
X.srdidm	Security requirements for decentralized identity management systems using distributed ledger technology	2024-09



Current works related to COVID-19 certificates

Work item	Subject/title	Timing
X.Sup.39 (ex X.rdda) (Joint work between Q7 and Q10)	Draft Supplement X.Sup.39 (X.rdda) to Recommendation ITU-T X.1148 "Requirements for data de-identification assurance"	2023-09 Agreed



The future of JCA-DCC

- Barriers or difficulties for running future of JCA-DCC
 - Apathy toward DCC (digital COVID-19 certificates) as COVID-19 pandemic ends
 - No needs to be issued DCCs in everyday life anymore
 - No needs for cross-border travelers to present DCCs to service providers anymore
 - No needs to maintain systems to issue and verify DCCs anymore
- JCA-DCC to include the future of verifiable health credentials (VHCs)
 - Immigration from JCA-DCC to JCA-VHC, multilateral coordination for VHC
 - Immigration from DCC systems to VHC systems, a kind of expansion of the DCC systems
 - Continuation to standardize for VHC beyond DCC, which is related to security, privacy, interoperability, etc.



Thank you!

