NICE Framework Components v2.1.0: Summary of Changes

December 2025

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Summary of Changes

The December 3, 2025 release of the NICE Framework Components Version 2.1.0 includes the following updates:

- **Work Role:** Comprehensive revision of Cybercrime Investigation (IN-WRL-001), including Task-to-Knowledge/Skill alignments.
- **Competency Areas:** Updated Artificial Intelligence (AI) Security (NF-COM-002).
- **Administrative Task, Knowledge, and Skill (TKS) Statement updates:** Administrative changes detailed below.

NICE Framework Components Version 2.1.0, replace v2.0.0 as the authoritative catalog of the NICE Framework Components, including Work Role Categories, Work Roles, Competency Areas, and TKS statements. The Components are available in Excel (XLSX) and JSON formats. Additional formats and assistance with implementation of NICE Framework Components are available on request by contacting NICEframework@nist.gov.

Versioning

A record of versions and release notes can be found on the NICE Framework Change Logs webpage in the NICE Framework Resource Center. This update is considered a **Minor Update** intended to add functionality, fix bugs, and make other changes that have minimal impact, if any, on backwards compatibility.

More details regarding update types, frequency, and versioning identifiers can be found in the NICE Framework Resource Center.

V 2.1.0 Update Details

Work Roles

Version 2.1.0 of the NICE Framework Components includes a comprehensive update to the Cybercrime Investigation Work Role (IN-WRL-001). This Work Role was reviewed and revised with the support of colleagues from the Federal Bureau of Investigation, who also led the revision of the Digital Evidence Analysis Work Role (IN-WRL-002), included in the release of v2.0.0.

The revisions, including changes made based on feedback received the public comment period, included the following changes to the Work Role's TKS statements:

- **Nine added statements**, including seven statements newly drafted for the Work Role.
- **Eleven modified statements**, whose contents were changed to more accurately reflect Work Role responsibilities and associated knowledge and skill needs. These modifications are applied across the NICE Framework and are reflected in each Work Role or Competency Area where the TKS statements appear.

- **Nine removed statements**, which were found to be out of scope for the Work Role or duplicative of other statements. Unless affected by administrative changes discussed below, these TKS statements remain part of the NICE Framework Components and are only removed from the Work Role.

The revision also includes alignments of Tasks to Knowledge and Skill statements for the IN-WRL-001 Work Role. Aligning these statements in a Work Role provides greater clarity on the specific knowledge or skills required by individuals in performance of each Task.

Competency Areas

Competency Areas were added to the NICE Framework Components with the March 2024 v1.0.0 release. At that time, only titles, identifiers, and descriptions were included. Since that time, the NICE Program Office has been working to develop these areas to include relevant Knowledge and Skill statements. This release includes an update to the description of the AI Security Competency Area and a newly published list of Knowledge and Skill statements.

- **Artificial Intelligence (AI) Security** (NF-COM-002): This Competency Area describes a learner's capability to understand Artificial Intelligence (AI) systems and to use them in a secure manner that maximizes AI's benefits while minimizing potential negative risks.

The Competency Area includes 70 Knowledge statements (31 of which are newly drafted) and 20 Skill statements (seven of which are newly drafted).

TKS Statements

In addition to changes to TKS statements originating from the revised Work Role and Competency Area, this update includes administrative updates to address issues identified by NICE Framework users. These updates are described in Table 1 below.

Table 1: Administrative Changes

TKS Identifier	Action	Notes
S0412, S0413, S0620	Replaced in all instances by S0479	These entries are not meaningfully different from S0479, "Skill in evaluating supplier trustworthiness", and are replaced to reduce duplication.
S0489	Removed	"Skill in implementing countermeasures". Overly broad.
S0834	Removed	"Skill in developing technical

		reports". Overly broad.
K1221	Replaced in all instances by K0803	"Knowledge of supply chain risk management practices" duplicates K0803: "Knowledge of supply chain risk management principles and practices".
K1237	Replaced in all instances by K0781	"Knowledge of Virtual Private Network (VPN) devices" duplicates K0781, "Knowledge of virtual private network (VPN) systems and software".
K1240	Replaced in all instances by K0678	"Knowledge of privacy laws and regulations" duplicates K0678, "Knowledge of privacy laws and regulations".

Including the above administrative changes, the overall changes to TKS statements included in v2.1.0 are summarized in Table 2 below.

Table 2: Comparison of TKS Statements, v2.0.0 and v2.1.0

	v2.0.0	v2.1.0
TKS Statements (total)	2, 111	2,148
Task Statements	941	946 (4 new)
Knowledge Statements	631	662 (34 new)
Skill Statements	538	540 (7 new)

Contact Us

The NICE Program Office welcomes suggestions for improving the usability of the NICE Framework and extends gratitude to NICE Framework users who notify us of potential issues. Suggestions for future upgrades and administrative changes may be sent to NICEframework@nist.gov at any time. We additionally encourage users to join the NICE Framework Users Group to share updates and connect with other Framework users.