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Series Q

Supplement 74

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SERIES Q: SWITCHING AND SIGNALLING, AND
ASSOCIATED MEASUREMENTS AND TESTS

Roadmap for the ITU-T Q.5050-series – Combat of counterfeit ICT and stolen mobile devices

ITU-T Q-series Recommendations – Supplement 74

ITU-T



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For further details, please refer to the list of ITU-T Recommendations.

Supplement 74 to ITU-T Q-series Recommendations

Roadmap for the ITU-T Q.5050-series – Combat of counterfeit ICT and stolen mobile devices

Summary

Supplement 74 to the ITU-T Q-series of Recommendations specifies the index and relation of the ITU-T Q.5050-series of Recommendations, Technical Reports and Supplements with regard to combating counterfeit ICT and stolen mobile devices.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T Q Suppl. 74	2021-03-26	11	11.1002/1000/14609

Keywords

Challenges, counterfeit, stolen mobile devices, tampered and duplicated identifiers, use cases.

* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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Supplement 74 to ITU-T Q-series Recommendations

Roadmap for the ITU-T Q.5050-series – Combat of counterfeit ICT and stolen mobile devices

1 Scope

The scope of this Supplement is to provide an overall index and relation of the ITU-T Q.5050-series of Recommendations. Additionally, it provides a cross-reference of the macro-process for combating counterfeit ICT and stolen mobile devices with the related Recommendations, Technical Reports and Supplements.

2 References

[ITU-T Q.5050]	Recommendation ITU-T Q.5050 (2019), <i>Framework for solutions to combat counterfeit ICT devices</i> .
[ITU-T Q.5051]	Recommendation ITU-T Q.5051 (2020), <i>Framework for combating the use of stolen mobile devices</i> .
[ITU-T Q.5052]	Recommendation ITU-T Q.5052 (2020), <i>Addressing mobile devices with a duplicate unique identifier</i> .
[ITU-T Q.5053]	Recommendation ITU-T Q.5053 (2021), <i>Mobile device access list audit interface</i> .
[ITU-T Q.Suppl.73]	Supplement 73 to ITU-T Q-series (2021), <i>Guidelines for permissive versus restrictive system implementations to address counterfeit, stolen and illegal mobile devices</i> .
[ITU-T X.1127]	Recommendation ITU-T X.1127 (2017), <i>Functional security requirements and architecture for mobile phone anti-theft measures</i> .
[ITU-T QTR-RLB-IMEI]	ITU-T Technical Report (2020), <i>Reliability of International Mobile station Equipment Identity (IMEI)</i> .
[ITU-T SR-AFR]	ITU-T Survey Report (2017), <i>Survey report on counterfeit ICT devices in Africa region</i> .
[ITU-T TR-Counterfeit]	ITU-T Technical Report (2015), <i>Counterfeit ICT devices</i> .

3 Definitions

3.1 Terms defined elsewhere

This Supplement uses the following terms defined elsewhere:

3.1.1 counterfeit ICT device [ITU-T Q.5050]: An information and communication technology (ICT) device that explicitly infringes the trademark, copies hardware or software designs, or infringes brand or packaging rights of an original or authentic product and, in general, infringes applicable national and/or international technical standards, regulatory requirements or conformity processes, manufacturing licensing agreements, or other applicable legal requirements.

3.1.2 unique identifier [ITU-T Q.5050]: An identifier associated with a single device that aims to uniquely identify it.

3.2 Terms defined in this Supplement

None.

4 Abbreviations and acronyms

This Supplement uses the following abbreviations and acronyms:

ICT	Information and Communication Technology
IMEI	International Mobile Equipment Identity

5 Conventions

None

6 Overview

This Supplement specifies the index and relation of the ITU-T Q.5050-series of Recommendations with regard to combating counterfeit ICT and stolen mobile devices. In addition, this Supplement provides a cross-reference of the macro-process to combat counterfeit ICT and stolen mobile devices and the related Recommendations, Technical Reports and Supplements.

7 Roadmap

The organization of the Recommendations, Technical Reports and Supplements within the scope of the ITU-T Q.5050-series are as follows:

Table 7-1 – Roadmap of Recommendations

No.	Title	SG	Date
ITU-T X.1127	Functional security requirements and architecture for mobile phone anti-theft measures	SG17	2017-09
ITU-T Q.5050	Framework for solutions to combat counterfeit ICT devices	SG11	2019-03
ITU-T Q.5051	Framework for combating the use of stolen mobile devices	SG11	2020-03
ITU-T Q.5052	Addressing mobile devices with a duplicate unique identifier	SG11	2020-09
ITU-T Q.5053	Mobile device access list audit interface	SG11	2021-01

Table 7-2 – Roadmap of Technical Reports and Supplements

No.	Title	SG	Date
ITU-T TR-Counterfeit	Counterfeit ICT devices	SG11	2015-12
ITU-T SR-AFR	Survey report on counterfeit ICT devices in Africa region	SG11	2017-02
ITU-T QTR-RLB-IMEI	Reliability of International Mobile station Equipment Identity (IMEI)	SG11	2020-07
ITU-T Q Suppl.73	Guidelines for permissive versus restrictive system implementations to address counterfeit, stolen and illegal mobile devices	SG11	2021-03

8 Relevant macro-process

The following diagram demonstrates the relevant process for combating counterfeit and stolen ICT devices and the related Recommendations produced at ITU:

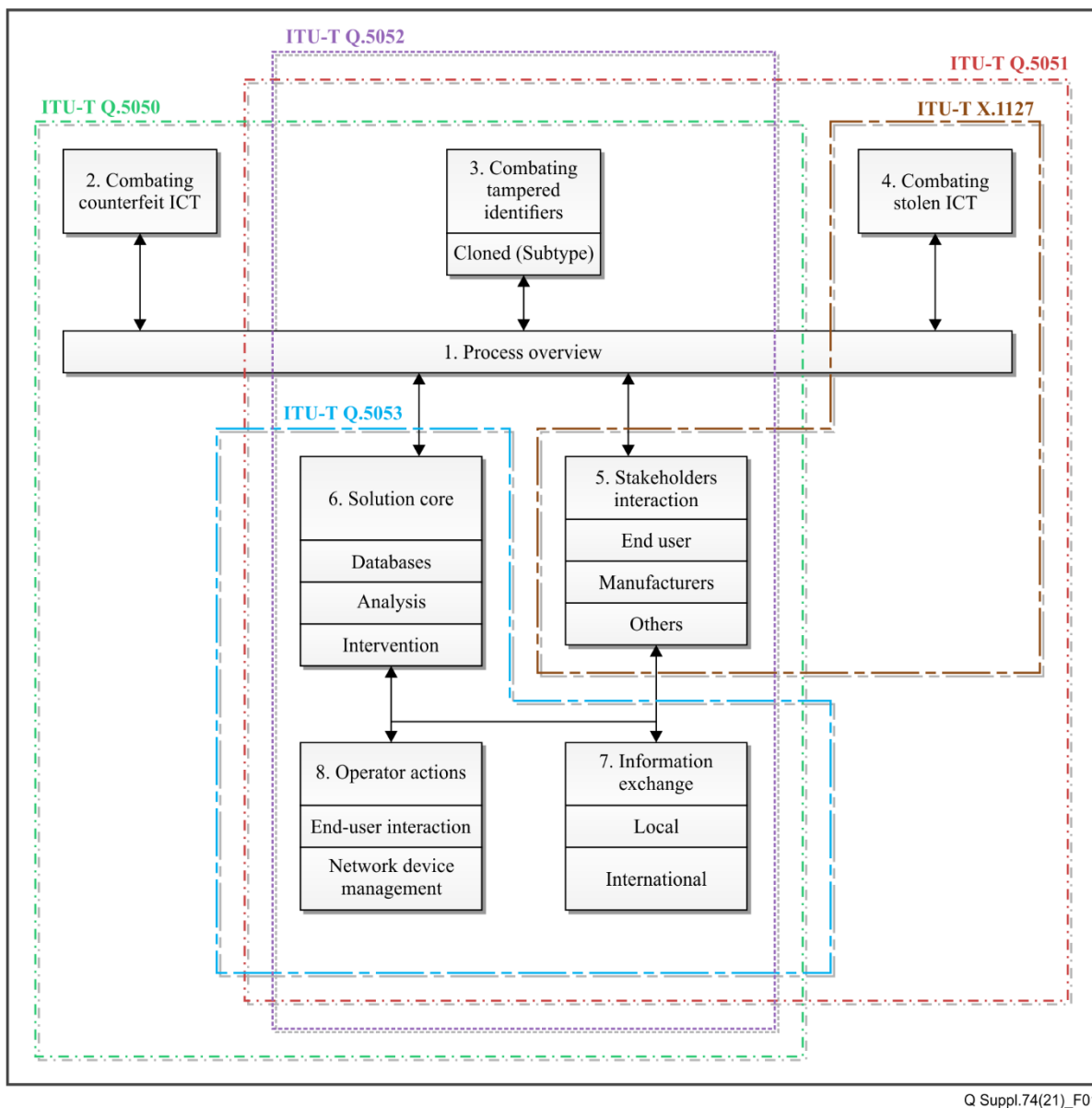


Figure 1 – Relationship between relevant process and Recommendations

9 Macro-process description

This clause summarises a description of each process listed above, including the sub-process functions.

9.1 Process overview

This process is responsible for the overview of the solution and is usually implemented by the government body legally responsible for addressing the combat of counterfeit ICTs.

9.2 Combating counterfeit ICT

This process aims to collect the specific relevant actions regarding the combating of counterfeit ICTs.

9.3 Combating tempered identifiers

This process aims to collect the specific relevant actions regarding the combating of tempered identifiers.

9.4 Combating stolen ICT

This process aims to collect the specific relevant actions regarding the combating of stolen ICTs.

9.5 Solution core

This process has all the actions related to the core of the technical solution that aims to address the problem. It may be implemented by a government entity or by a delegated external party.

9.6 Stakeholder interaction

This process is responsible for the interaction with all the relevant stakeholders involved in the problem, such as the manufacturer, end user, government body and regulator.

9.7 Information exchange

This process is responsible for all the information exchange, including international databases, which are necessary for the implementation of the solution.

9.8 Operator actions

This process concentrates all the actions that should be fulfilled by the network operator, including device management and access control.

10 Cross-reference of macro-process and Recommendations, Technical Reports and Supplements

Table 9-1 provides the cross-references of the macro-process and Recommendations, Technical Reports and Supplements.

Table 9-1 – Cross-reference of macro-process

No.	Title	Macro-process/ topic
ITU-T Q.5050	Framework for solutions to combat counterfeit ICT devices	1, 2, 3, 5, 6, 7, 8
ITU-T Q.5051	Framework for combating the use of stolen mobile devices	1, 3, 4, 5, 6, 7, 8
ITU-T Q.5052	Addressing mobile devices with a duplicate unique identifier	1, 3, 5, 6, 7, 8
ITU-T Q.5053	Mobile device access list audit interface	6, 7, 8
ITU-T X.1127	Functional security requirements and architecture for mobile phone anti-theft measures	4, 5
Q Suppl.73	Guidelines for permissive versus restrictive system implementations to address counterfeit, stolen and illegal mobile devices.	1, 2, 3, 4, 5, 6, 7, 8
ITU-T TR-Counterfeit	ITU-T Technical Report – Counterfeit ICT devices	Overview
ITU-T QTR-RLB-IMEI	Reliability of International Mobile station Equipment Identity (IMEI)	Device identifiers
ITU-T SR-AFR	Survey report on counterfeit ICT devices in Africa region	Regional actions

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