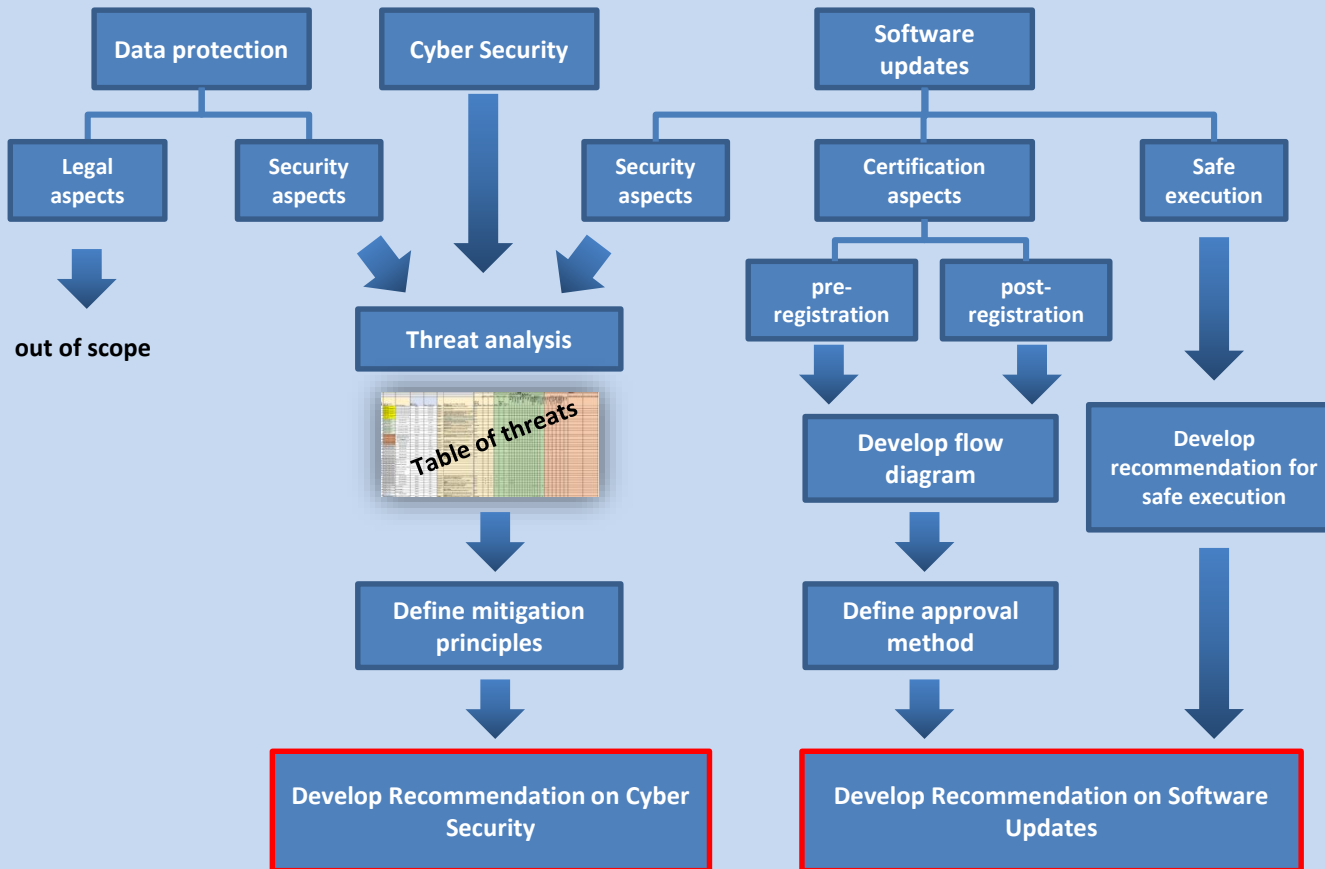


# Status report on the activities of TF-CS/OTA

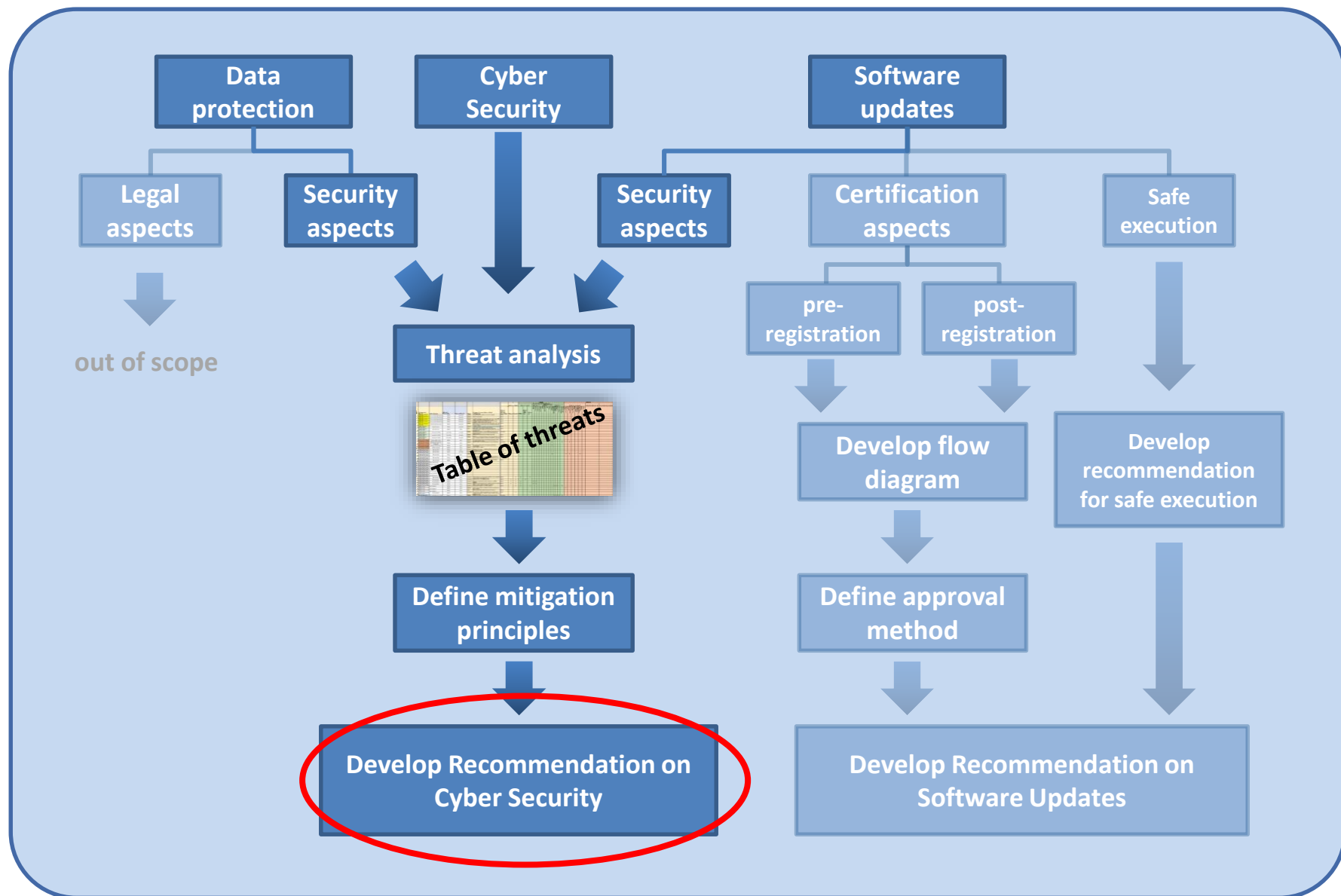
13<sup>th</sup> session WP.29 IWG ITS/AD  
16 November 2017, UNECE, Geneva

## Scope of TF-CS/OTA and delivery of results



The group decided to develop two Recommendations, one for Cyber Security and one for Software Updates

# Closer look at the Recommendation on Cyber Security



## Status on the Recommendation for Cyber Security

### Status of work:

- Document structure developed
- Drafting has started: Initial draft available with full set of text
- Not yet fully reviewed, more time needed
- Need to agree wording and detailed content based on further discussions.

### Potential approach:

Recommendation may be taken forward as part of the Consolidated Resolution (R.E. 3) or its own standalone Resolution

# Structure of the Recommendation on Cyber Security

The group works on the basis of the following structure:

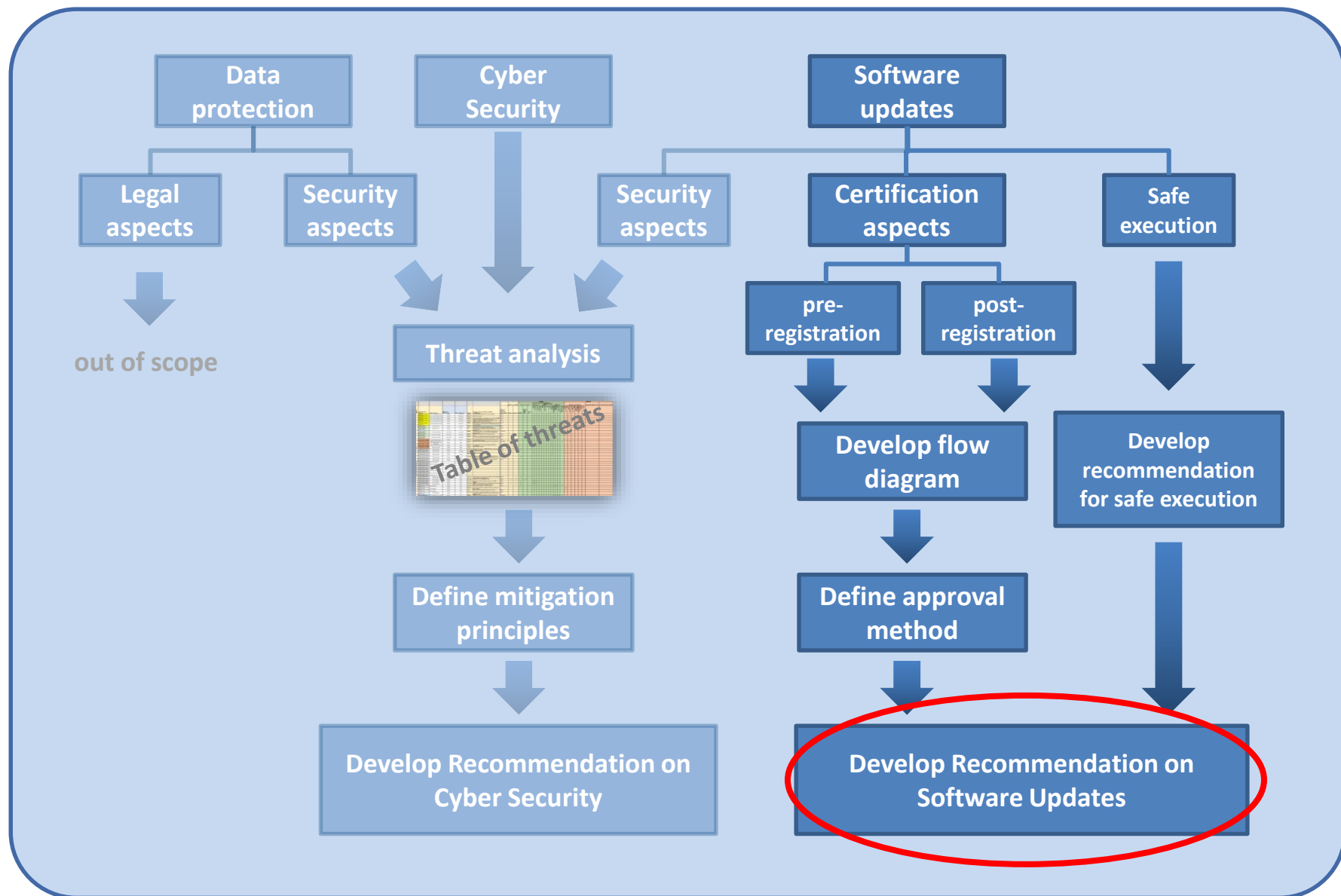
1. Introduction
  - 1.1. Preamble
  - 1.2. Scope
  - 1.3. Approach
2. Definitions (and abbreviations)
3. Reference Model
4. Cyber security principles
5. Threat Assessment
6. Mitigations
7. How to evidence consideration of the threats, mitigations and principles identified
8. Conclusion and Recommendation for further proceedings

Annex 1	List of threats and corresponding principles and mitigations
Annex 2	List of Security Controls related to mitigations incl. examples
Annex 3	List of reference documents





# Closer look at the Recommendation on Software Updates





## Status on the Recommendation for Software Updates

### Status of work:

- Document structure developed
- Drafting has started: some chapters still without content
- Existing text not yet fully reviewed, more time needed
- Need to develop content for blank sections
- Need to agree wording and detailed content based on further discussions.

### Potential approach:

Measures to identify updating or updated software should be introduced in existing Regulations (main body / annexes)

# Structure of the Recommendation on Software updates

The group works on the basis of the following structure:

1. Introduction
  - 1.1. Preamble
  - 1.2. Scope
2. Definitions
3. Process on software updates
  - 3.1. Overview
  - 3.2. Software update approval process
  - 3.3. Prerequisites
  - 3.4. Type approval process responsibilities
4. Additional requirements for software updates
  - 4.1. Requirements for safely and securely conducting an update
  - 4.2. Safety requirement for all updates
  - 4.3. Additional safety requirement for OTA updates
  - 4.4. Security requirement for all updates
  - 4.5. Requirements for evidencing that the update is safe and secure

## Structure of the Recommendation on Software updates

5. Identification of the installed software

5.1. Use of the Software Identification Number, RxSWIN

6. Conclusion and Recommendation for further proceedings

Annex 1 *an annex for how the vehicle shall ensure the safety of the update process (to be attached to appropriate regulations)*

Annex 2 *an annex for where specific regulation require a part on software updates and help implementation (to be attached to appropriate regulation(s))*



**Some further amendments to be expected!**

## Open issues and challenges

Issues/challenges encountered during the work:

- Non-harmonized registration process:  
especially an issue for post-registration software updates
- Database to cover RxSWIN concept:  
Potential extension of DETA may be suitable to support configuration control of software
- Concepts that organizational issues and S/W development should become part of type approval/certification
- Aftermarket issues
- Lifecycle of the vehicle vs. Type approval
- Software update process and recommendation to work in type approval and self certification environment



**It might not be possible to deliver exhaustive contents on all subjects within the timing of the original mandate.**

## Extension of the mandate of TF-CS/OTA

Since the group was established on 21 December 2017, it had:

- 9 physical meetings  
in Europe, Asia and North America
- 6 web meetings  
on special topics

In order to deliver two recommendations until March 2018 following additional meetings are scheduled so far:

- 2 physical meetings  
in London and Washington (tbc)
- 3 web meetings  
to further develop the recommendations

In order to deliver the recommendations to ITS/AD and to take any feedback from its parental group, TF-CS/OTA is formally asking to to extend the mandate until June 2018.

# Workplan and timing

