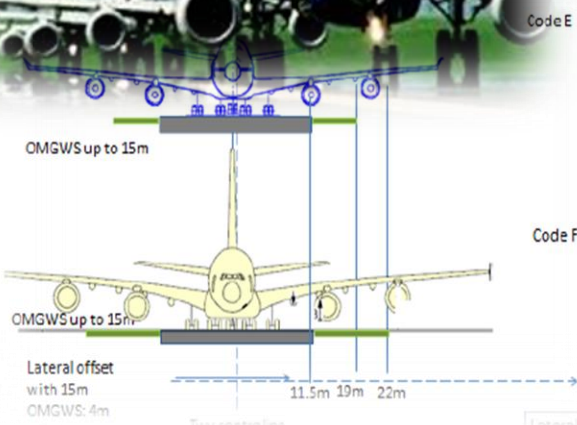


Work of the ACI World Safety and Technical Standing committee(wstsc)

- PP Singh, Chair STSC &
Head Safety, Compliance & Enforcement DIAL ,IGI Airport Delhi



Outline

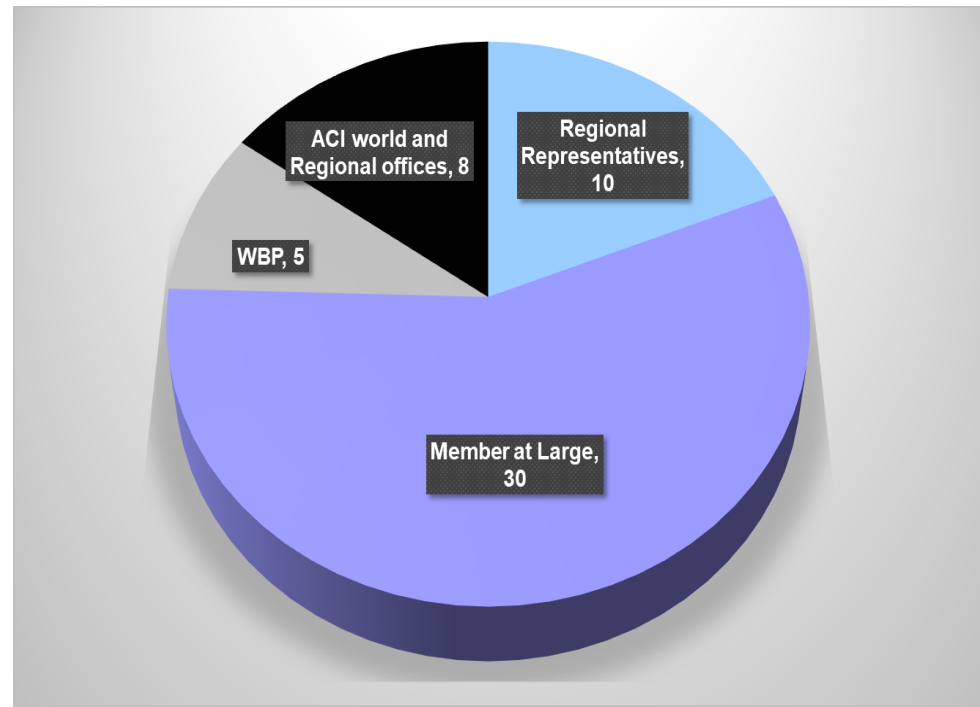
- ACI World Committees and WSTSC composition
- Terms of reference of WSTSC
- Promoting Airport excellence
- ACI Safety Handbooks
- Working with ICAO
- Promoting Airport interests at ICAO



ACI World Committees & WSTSC composition

- Airport Information Technology Standing Committee
- Economics Standing Committee
- Environment Standing Committee
- Facilitation and Airport Services Standing Committee
- Security Standing Committee
- Safety and Technical Standing Committee

WSTSC Composition



Terms of reference of WSTSC

- **The WSTSC covers all aspects of:**

- Airport planning and development
- Airspace and airport capacity
- Physical characteristics of Runways, Taxiways and Aprons, Visual aids
- Operational safety including airport equipment and installations;
- Apron (ramp) safety and aerodrome vehicle operation;
- Aerodrome emergency planning, RFF, DG, Disabled Aircraft removal;
- Aircraft/airport compatibility issues
- Safety Management Systems.
- Drones
- Aerodrome certification
- Knowledge sharing



Promoting Airport Excellence

1. Safety Data collection and Analysis

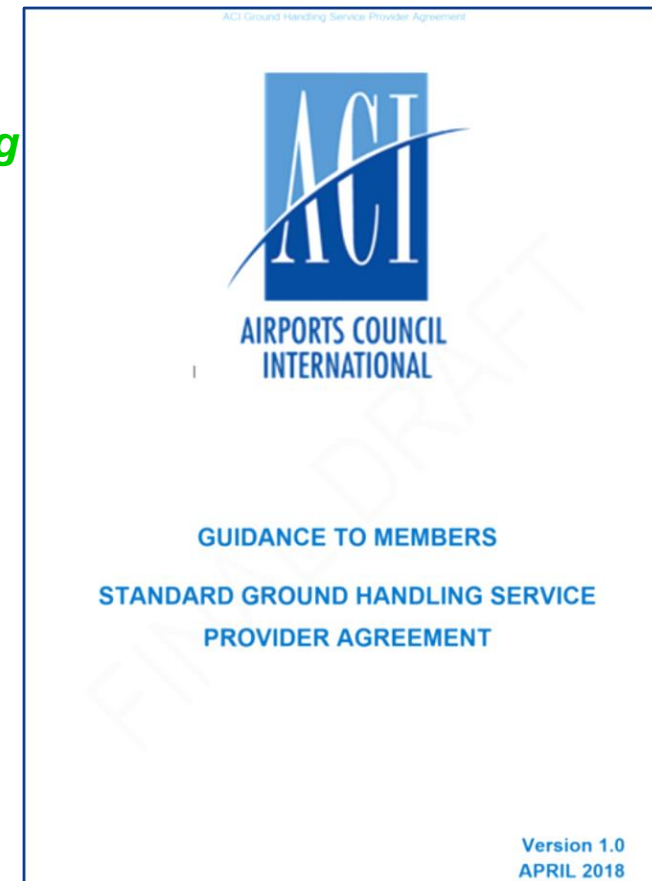
- ACI scheme submitted to WGB
- A pilot project was carried out with WSTSC members
- To be extended to other ACI members
- Data submitted will not be disclosed even in de-identified form
- Flexibility for Airports to independently benchmark based on generic report
- To improve Runway, Taxiway, Apron and Ground handling safety based on data
- To support the ICAO Global Aviation Safety Plan and the Global Runway Safety Action Plan, which refer to safety data;



Promoting Airport Excellence

2 . Ground Handling

- ACI policy paper on GH approved by WGB in 2016
‘Airport operators should require each Ground Handling Service Provider to sign a license or concession agreement in order for it to operate on the airport’.
- WSTSC has developed a template for such an agreement based on inputs from member Airports
- Fully contributed in the first manual from ICAO on Ground Handling from airport perspective.



Promoting Airport Excellence

3. Drones

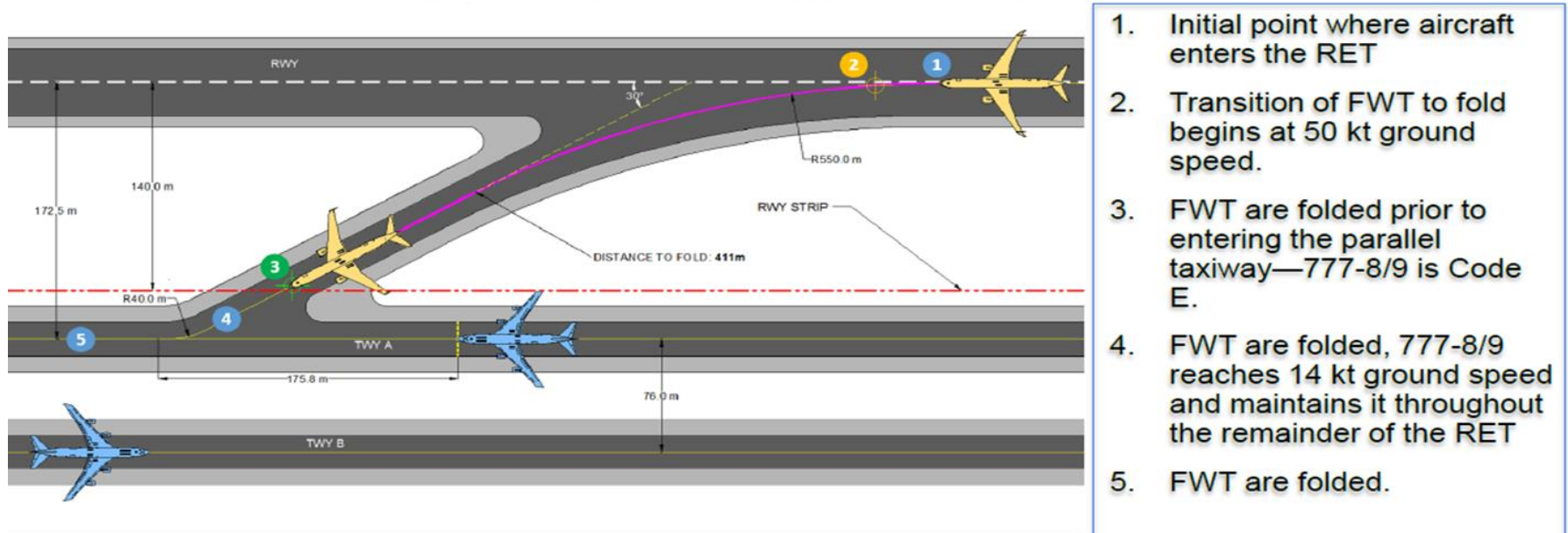
- Prepared ACI policy paper to ensure that Drone operations are facilitated, without negative impact to safety, security, efficiency or capacity of airport operations.
- Working with ICAO on regulations for large drones (RPAS) and system for management of small drones (UAS).



Promoting Airport Excellence

4. Operation of Boeing 777X with folding wingtips

- Leading the Airport Compatibility Group on airport requirements - operationalization of new B777X aircraft (convertible from Code F to Code E through folding wing tips) at existing Code E airports.
- Concept of Operations Agreed and endorsements of Common Agreement Document by CAAs is being sought.



Promoting Airport Excellence

5. NEXTT – New experience Travel Technologies - Joint project with IATA

Vision: A fully coordinated aircraft turnaround processes, using the latest in automation, safety and environmentally friendly technologies to increase predictability.

- **THROUGHOUT THE JOURNEY**
 - Situational awareness, sustainable ops
- **OFF-AIRPORT**
 - Arr Mgmt, on Approach, Remote TWR
- **GROUND MOVEMENTS**
 - Aircraft Taxi-In, GSE
- **AT THE STAND**
 - Data comm, GH, maintenance, etc,
- **STAND DEPARTURE**
 - Dep mgmt., Pushback, Deicing
- **TAKE-OFF**
 - Aircraft taxi-out, post take-off communications



ACI Safety Handbooks



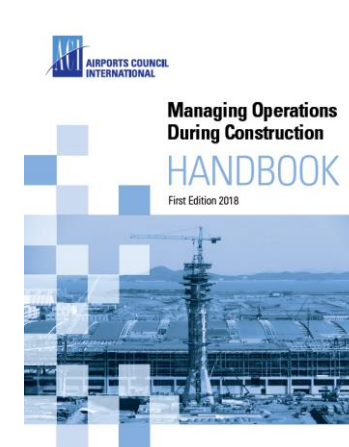
Published Feb 2018: Managing Operations During Construction

To come :

- 2018: Rescue and Fire Fighting
- 2019: Airfield Maintenance and Asset Management

Short guidance documents:

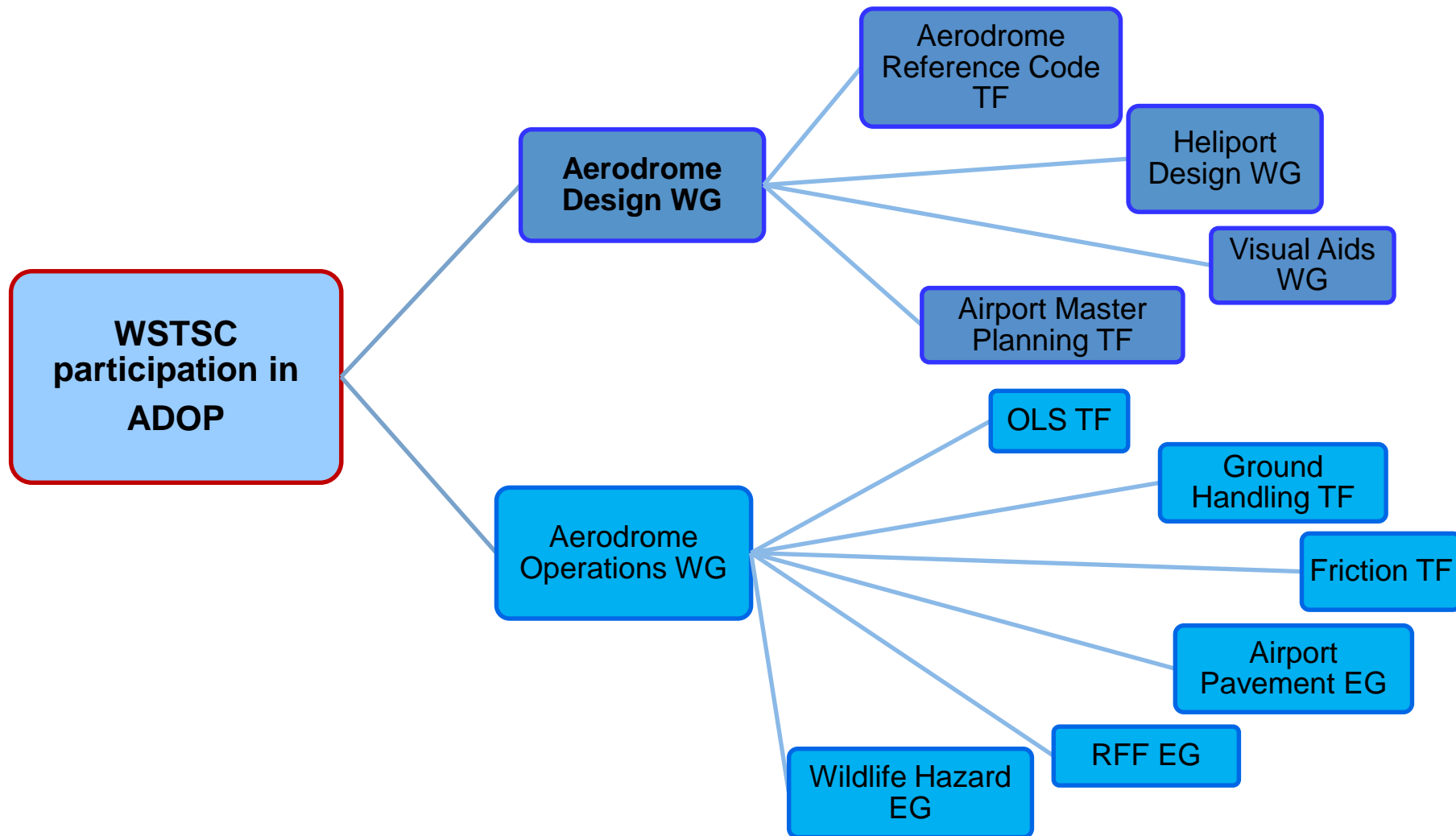
- Aerodrome Certification Guide
- A-CDM Primer
- Adverse Weather Operations



Working with ICAO



Working with ICAO *(Working groups & Task forces)*

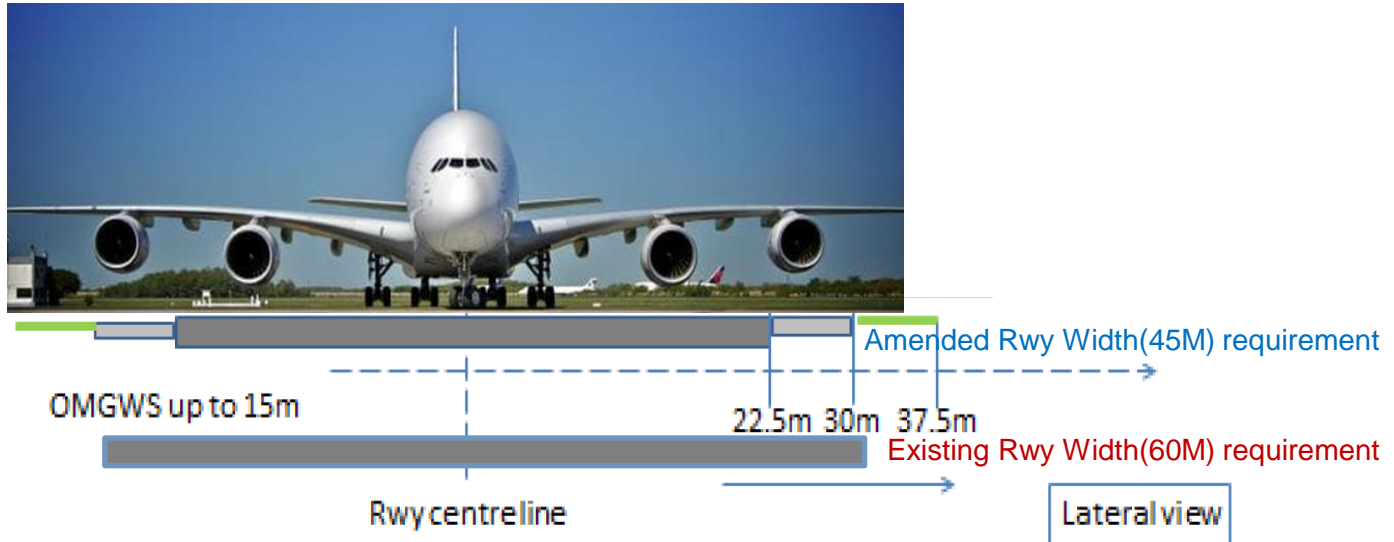


Advocacy for airport interests at ICAO

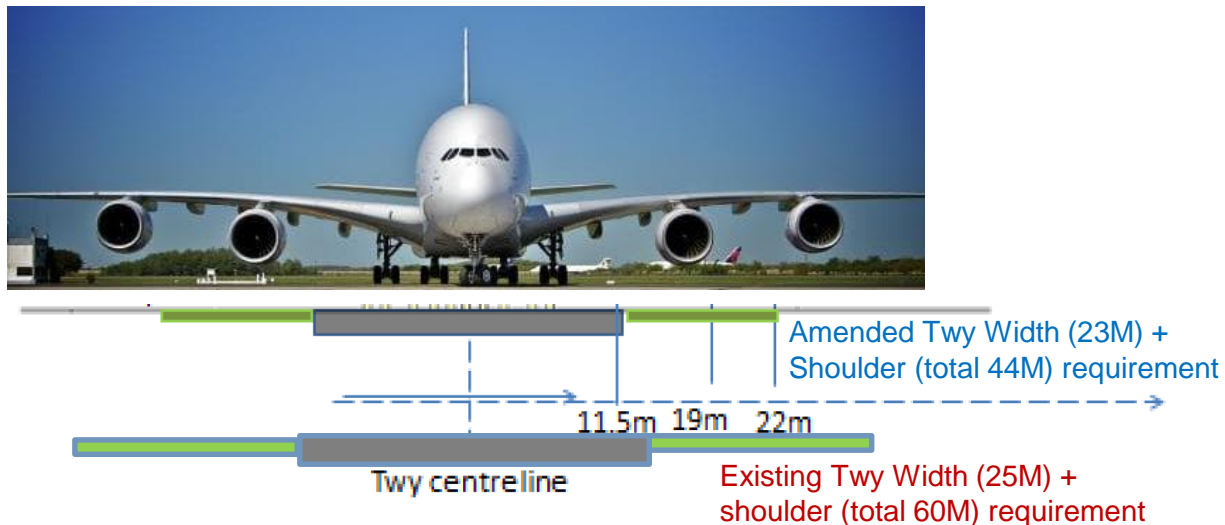
- **Air Navigation Conference Oct/Nov 2018** - worked with ICAO on paper on aerodromes – ACI will also submit papers (being drafted).
- **PANS-Aerodromes** - ACI drafted procedures for eight new domains for PANS-Aerodromes. To be sent to States for consultation, for applicability in 2020.
- **Global Reporting Format for Runway Friction on contaminated runways**(Runway Condition Code) – ACI & ICAO joint symposium in 25-29 March 2019, Montreal.
- **Wildlife** – ACI leading ICAO group to re-write ICAO's guidance manual on wildlife hazard.
- **Airport Master Planning** – working with ICAO on Standards for master planning and revised edition of the ICAO Manual on Airport Master Planning.
- **Land Use Planning** – supporting environment group working with ICAO on ICAO Manual on Land Use Planning and Environmental Management.
- **Taxiway nomenclature** - Joint Paper with IFALPA accepted

Promoting airport interests at ICAO: Annex 14 amendments

Runway



Taxiway



Savings in pavement construction costs from Annex 14 amendments (Generic)

Region/ Country	Savings on Rwy (Million USD)	Savings on Rwy shoulders (Million USD)	Savings on Twy (Million USD)	Savings on Twy shoulders (Million USD)	Total cost saving (Million USD)
Asia/ Singapore	8.4	(6.72)	2.24	9.40	13.32
Asia/ Malaysia	7.62	(6.09)	2.03	8.53	12.09
Asia/India	4.32	(3.45)	1.15	4.84	6.85
Europe	21.54	(17.23)	5.74	24.12	34.18
United States	22.56	(18.05)	6.01	25.26	35.79

- ***Approximate costs, based on available figures per sq m of pavement construction in different countries***
- ***Assumptions : For Rwy length of 4000m with standard taxiway network.***
- ***Earthworks, maintenance and all other associated costs not included.***
- ***Runway shoulders are wider, thus costs increase.***

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