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| **Purpose:** | Information |
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| **Keywords:** | ITU-T databases; Metrics; Reporting; Statistics; |
| **Abstract:** | This TD provides an exhaustive inventory of all databases involved in supporting ITU-T activities, with the aim to better apprehend their potential in terms of metrics but also to understand their limitations. |

TSB would like to share an overview of the databases used to support ITU-T meetings and working methods. By providing a high-level description of the data collected, we hope to assist TSAG in its approach to defining some metrics and clarify its current limitations.

In this document, database designates a collection of data organized so that it can be easily accessed, managed, and updated. Therefore, that TD is not covering document repository or collaborative platforms such as ftp or SharePoint, although they could, to some extent, be considered as such.

First are listed the TSB databases that had to be regularly created to support the improvement of specific ITU-T working methods, starting with the creation of the Recommendations database in the early 2000s.

Those databases were all developed using same database management system, MS SQL.

This is followed by databases covering common ITU-wide needs, such as membership, meeting documents and participant registration.

They are managed using MS SQL, Documentum, and SAP systems.

Although these databases are not managed by the same system, they are gradually being analysed and connected to Microsoft Power BI, which has recently been adopted by the ITU. Microsoft Power BI is a Business Intelligence solution that covers data management and analysis. TSB is currently using this tool to unify, replace and clean the existing reports, and develop new reports and statistics. It will also be used to search for more data insights.

# TSB databases

| **Database** | **Period covered** | **Volume** | **Content** |
| --- | --- | --- | --- |
| ITU-T Recs | 1976 - 2020 | ~ 14 300  | Recs and Suppl. | Collection of approved Recommendations (with Cor. and Amd.) and Supplements, with:* Approval date & process and Study Group responsibility.
* Editing and translation workflow including exchanged emails (**since 2000**).
* Provisional name, ISO number for common text, titles & summaries in 6 languages.
* Software and formal languages.
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| AAP | 2000 - 2020 | ~ 4 700 | AAP texts | Collection of AAP texts, with:* LC and AR texts, summaries, comments, results, and notifications.
* Approval history.
* Link to Work Programme.
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| Work Programme | 2006 - 2020 | ~ 2 000 ~ 10 400 ~ 4 400 ~ 22 400 ~ 5 000~ 3 600~ 100 | working groupswork itemscontactsbase textsA.5 justificationsnormative ref.A.1 justifications | Collection of ITU-T Working groups and work items, with:* **4** complete study period structures
* Chairmanship, rapporteurs, editors, and contacts details
* Base texts references
* A.4/A.5/A.6 recognized SDOs
* A.5 justification for normative reference
* A.1 justification for new work item proposal
 |
| IPR | 1983 - 2020 | ~ 2 200 165 62 | Patent statementsSoftware copyrightsGeneral statements | Collection of patent statements, software copyrights and general statements, with:* Patent information, submitter, Recommendation, etc.
* Scanned declarations
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| Liaison Statement | 2010 - 2020 | ~10 000 | Liaison statements | Collection of ~ 10 000 Liaison Statements, with following data:* Sender, and recipient.
* Type of Liaison with multiple details, source, approval, deadline, etc.
* Link to the text received, and link to the respective TD, when relevant.
* Link to the LS it replies to, when relevant.
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| Rapporteur Group Meeting | 2014 - 2020 | ~ 3 000 | RGMs | Collection of RGMs, with:* Event details, dates, title, host, venue, etc.
* Questions, Study Group
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| Direct Document Posting | 2011 - 2020 | ~ 20 000 | Contributions | Collection of ITU-T SG Contributions submitted online via direct posting with: * Submitter,
* Sources, **with the respective country added mid of 2018**
* Questions,
* Event, title, observation, etc.
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| MyMeetings | 2019 - 2020 | ~ 1500~ 34 000 | E-MeetingsParticipants | Collection of MyMeetings E-Meetings and participants with:* Meeting title, dates, and duration
* Participants, role, etc.
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| International Numbering Resources | 2020(Period depends on data collection) | ~ 45 000 | Numbers and identifiers (UIFN, IIN, country codes, MCC, MNC, ISPC, SANC, etc.) | Collection of INR Database (Restricted Access), with:* ITU-T E.164 Country Codes & International Shared Country Codes
* ITU-T E.118 Issuer Identifier Number (IIN)
* ITU-T E.212 (MCC & MNC)
* ITU-T E.218 (TMCC)
* ITU-T Q.708 (ISPC & SANC)
* Etc.
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# ITU databases

| **Database** | **Period covered** | **Content** | **Comment** |
| --- | --- | --- | --- |
| CRM Membership (SAP) | Current | Collection of ITU membership, managed by TSB regarding ITU-T. | Under ITU Membership and ITU-T Membership services management. Statistics regarding membership are falling under their responsibilities. However, membership details can still be accessed for TSAG metrics. |
| EDRS Meeting participants (MS SQL) | Before 2018 | Collection of ITU events and registered participants. | This database has been used for past events, until it was replaced progressively by the new CRM SAP system. Their structures are completely different, which makes data analysis difficult for the transition period.  |
| CRM Events and Meeting participants (SAP) | After 2018 | Collection of ITU events and registered participants. | This database is the one currently used for all ITU Events and participants registration reports, therefore TSAG metrics regarding this database will be straightforward. |
| Meeting documents and publications (Documentum) | 2001 - 2020 | Collection of ITU meeting documents and publications, with:* Document metadata & file
* Publication policy
* Publication dates
 | This database is very complete and can be accessed directly through MS SQL. However, its structure has made difficult the analysis on SG Contributions and TD sources. Since mid of 2018, it was improved, which should make respective metrics more reliable. |
| ITU Events (MS SQL) | 2006 - 2020 | Collection of ITU Events, with all respective metadata. | This database is synchronized with the CRM event management system, which will gradually replace it. |
| IWM Electronic services (MS SQL) | 2008 - 2020 | Collection of electronic services available online for self-service subscription, such as:* Mailing lists
* Ftp Area
* SharePoint
 | Hundreds of subscriptions/de-subscriptions are regularly made online particularly on mailing lists, on it could be an interesting field for metrics. |

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