Single Maintenance Database (SMD)

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The concept of a Single Maintenance Database (SMD) has been around for at least 15 years.

The technology has since improved and the need grown with the size and complexity of today’s maintenance programs.

The subject was re-introduced as an Issue Paper at the January 2008 MPIG meeting in Memphis.

It was agreed that this IP should be submitted to the IMRBPB to request IMRBPB support for the concept as well as guidance for moving the issue forward.

There will be an improvement in the speed and convenience of approval with digital signature and a single database.

There will be major cost savings with OEMs and airlines with a single database.

The current system of multiple documents being issued out of phase and requiring lengthy approval processes is a safety issue.
Each OEM has a unique process to provide approved minimum maintenance requirements and multiple sources are used to list them.

With the multitude of various source documents, operators are required to track the revisions and maintain accurate records.
Future Process Flow

- **Regulatory Authorities**
  - Single repository for approval by regulatory authorities.

- **ISC**, **MRBR**, **TC Process**, **OEM**, **Regulatory Authorities**
  - Standardized maintenance requirement data.

- **Airline**, **MS**
  - Electronic data transfer throughout the whole process.
  - One source for all maintenance requirement data.

- **OEM**, **MRBR Database**, **Serv. Exp.**
  - Traceability for all maintenance tasks to their original requirement.
Working with OEM’s, authorities and airlines:
- Determine what work is currently underway to define a format for an SMD
- Define a format
- Define how the database will be revised and how often
- Determine how the information will be distributed to the users
- Populate a draft SMD by linking data from relevant sources (e.g. MSG3, CMR, ALI, AMM, GSE, NDT, IPC, Job Cards, etc.).
- Come back to the IMRBPB with a draft SMD with an approval and revision process
The IATA committee is looking for IMRBPB support to follow the above plan.

The committee would like feedback that this concept is something the IMRBPB would likely approve in the next 2 to 3 years.

Provided the concept is agreed, the committee would like the IMRBPB support in order to get acceptance from the Certification office.