



A COBie file is a collaborative deliverable that develops progressively over the project's life, with each stakeholder contributing information within their area of responsibility, as illustrated in Figure 2.

### COBie for Other Ministries

As different organizations and ministries use various CMMS platforms, the required data structures and formats vary. To accommodate this diversity and ensure the consistent exchange of building asset information that meets the needs of different end users, multiple versions of the COBie Specification have been developed by the DPD team.

- The COBie Specification does not replace the COBie standard. Instead, it provides detailed guidance on data formatting, naming conventions, and classification rules to support compliance with ministry-specific requirements.
- It has been refined and updated by the DPD team through multiple iterations and implemented across numerous projects for different end user groups, including Health Shared Services, Alberta Infrastructure, and Environment and Protected Areas.
- As project volume increases and operational needs evolve, the COBie Specification is expected to continue evolving, with additional versions introduced to support a broader range of end user contexts.

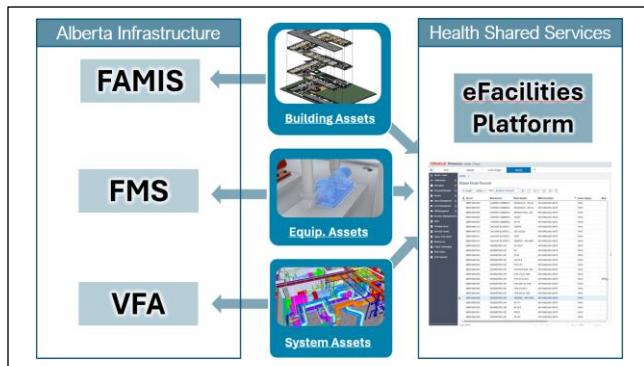


Fig. 3: CMMS used by Alberta Infrastructure and Health Shared Services

### COBie-derived data collection form

The COBie standard requires highly structured and detailed data, which can be challenging and costly to implement on projects with limited scope, tight schedules, and constrained budgets. To address these limitations, the DPD team created a simplified Excel-based Asset Information Collection (AIC) Form based on the COBie data structure.

In comparison to a full COBie implementation, the following are some benefits of using the AIC Form for small renovation or retrofit projects:

For further information contact: INFRAS-TSBBIMDPDTeam@gov.ab.ca  
 Technical Services and Procurement Branch, Alberta Infrastructure  
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- It substantially reduces the data-entry burden for consultants and contractors while still capturing essential information related to project contacts, floors, spaces, equipment, systems, and associated documentation.
- The AIC Form captures the building assets that directly affected by the project scope, including assets that are removed, replaced, or newly installed.

### COBie Export Tools

Different software tools are available to export COBie files, including:

- Autodesk COBie Extension for Revit
- dRofus
- EcoDomus
- Ideate BIMLink
- Solibri COBie Extension

### Further Considerations

Currently, COBie data verification is performed by the Technical Services DPD team, relying on documentation from consultants and contractors, including drawings, shop drawings, and O&M manuals. While this approach provides a basic level of validation, it may not sufficiently ensure data accuracy or completeness. To strengthen this process, verification responsibilities could be integrated into the scope of commissioning agents, who inspect and test installed systems, or assigned to consultants, who approve equipment selections and design changes. In addition, existing COBie workflows do not adequately capture asset removals, relocations, and replacements in large renovation projects. Enhancing procedures to document these lifecycle events would improve the accuracy and continuity of facility asset records.

### References

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