Software choice for Concurrent Engineering

IDM vs CDP4 vs OCDT

Server configuration:

|  |  |  |  |
| --- | --- | --- | --- |
| Software | Sharing system | Client installation difficulty | Server installation difficulty |
| IDM | Single file on shared network. | Easy | Medium |
| OCDT | Server database | Easy | Hard |
| CDP4 | Server database | Easy | Hard |

OCDT server (compatible with CDP4 software) is hard to setup and support is limited.

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Concurrent Engineering setup with IDM:

*Iterations management:* iteration endings shall be defined in a clear way. The iteration does not necessarily converge towards a solution; if one is diverging, then the previous iteration shall be reverted back to for the next iteration.

*Commit conflicts:* each subsystem will work on **one** common instance of IDM. Access will be limited to the relevant subsystem and compartmented SS by SS. Commit can then be done without any restriction by any SS.

*Note: it implies setting up a user system with identification given to specific subsystems.*

*Version control:* Git will be used to save IDM binary files at the beginning and end of each concurrent engineering session. It will not be used for merging .xml files nor for creating branches.

Feedback from experts:

* Jean-Luc Le Gal – IDM responsible at CNES: OCDT and CDP4 are much more complex than IDM and are not adequate for simple Concurrent Engineering sessions.