
White Paper:
Capability Ordering

The TWAIN Working Group
March 29, 1999



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The purpose of this document is to point out connections between certain capabilities. The way one capability can affect another is not always obvious and failure to recognize this interdependence is often the reason for unexpected TWAIN Scanning results. Using this as a guideline, a Application Developers can code capability negotiation with confidence, and Data Source developers can refer back to this document to make sure they have not introduced an unusual dependency.

One other note about interpreting this document, the entire list of capabilities is in the context of the Current File System Device. If the Current File System Device was changed using the DAT_FILESYSTEM triplets, the context of these capabilities is expected to change and re-negotiation must occur. It is much easier to deal with if the File System operations are completed first and Capability negotiation on a large scale is left until just before scanning from a particular device.

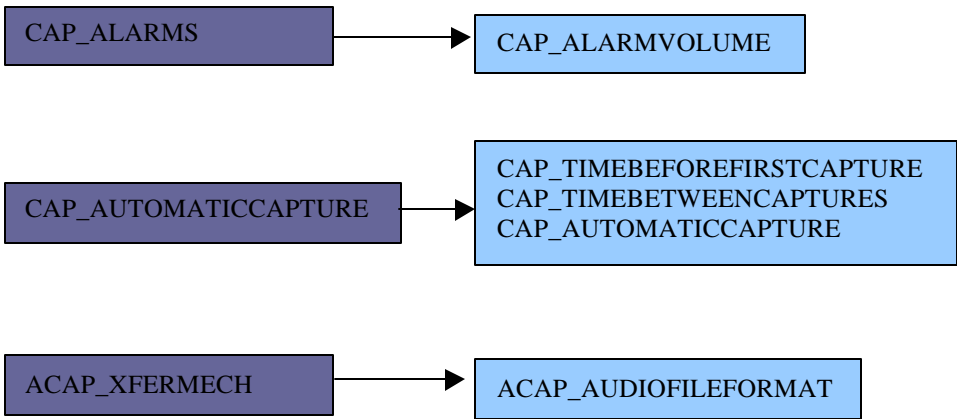
Independent Capabilities

These capabilities are considered independent because they do not affect other capabilities and they are not affected by changes in other capabilities.

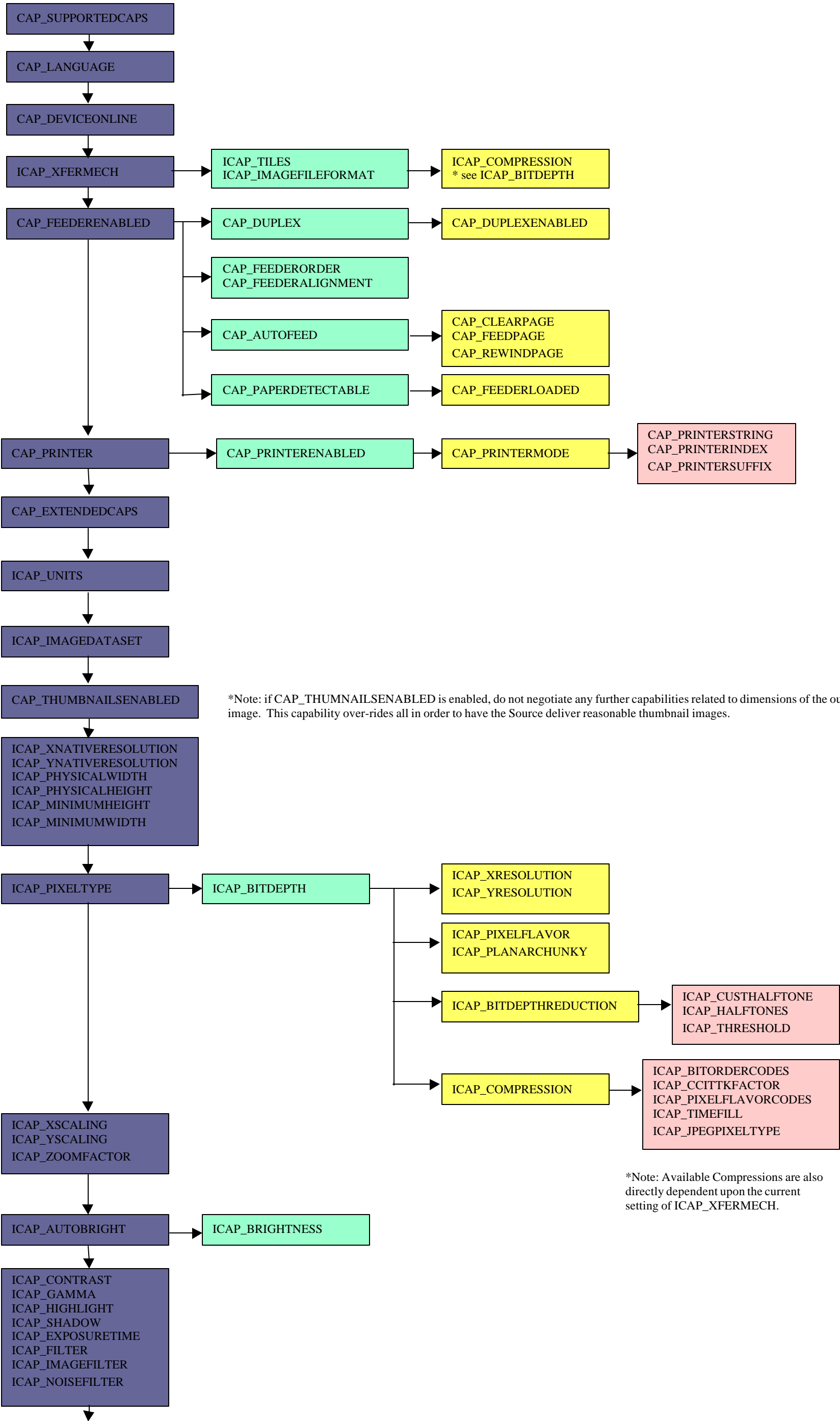
CAP_ENABLEDSUIONLY
CAP_CUSTOMDSDATA
CAP_INDICATORS
CAP_UICONTROLLABLE
CAP_SERIALNUMBER
ICAP_LAMPSTATE
CAP_BATTERYMINUTES
CAP_BATTERYPERCENTAGE
CAP_POWERSUPPLY
ICAP_BITORDER
CAP_DEVICETIMEDATE
CAP_DEVICEEVENT
CAP_CAMERAPREVIEWUI

Semi-Independent Capabilities

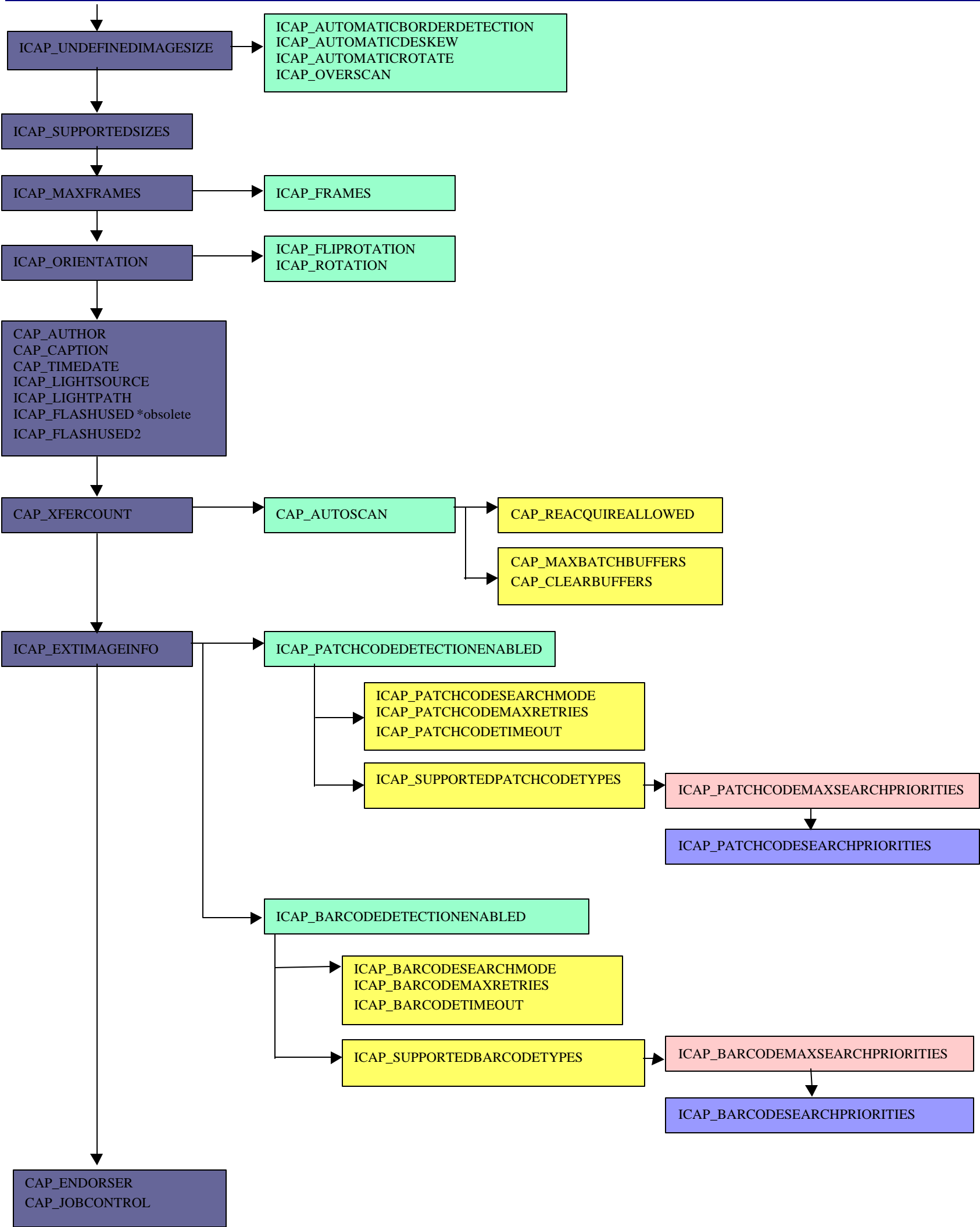
Semi Independent Capabilities are small groups that have little effect on the big picture do have their own pockets of dependencies.



The Big Picture of Dependant Capabilities (1 of 2)



The Big Picture of Dependant Capabilities (2 of 2)



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