$\mathcal{I}$-convergence classes

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Let X be a non-empty set. In this talk we consider the class $\mathcal{C}$ consisting of triads $(s, x, \mathcal{I})$, where $s = (s_d)_{d\in D}$ is a net in X, $x \in X$ and $\mathcal{I}$ is an ideal of D. We shall find several properties of $\mathcal{C}$ such that there exists a topology τ for X satisfying the following equivalence: $((s_d)_{d\in D}, x, \mathcal{I}) \in \mathcal{C}$, where $\mathcal{I}$ is a proper D-admissible ideal on D, if and only if $(s_d)_{d\in D}$ $\mathcal{I}$-converges to x relative to the topology τ.