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We will propose a family of vector spaces defined to be a natural setting under which we consider vector valued functions integrable in the generalized Riemann sense, using nuclear mappings. These spaces are treated as the union of countably semi-normed spaces. The family contains all the spaces published in [Mathematica Japonica, 39(1994), 309-335; 47(1998), 367-396]. (Received April 17, 2000)