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Fueter's theorem is a fundamental result in Clifford analysis. It discloses a remarkable connection existing between the classical holomorphic functions and its higher dimensional counterpart: the monogenic functions. The aim of our talk is to provide an overview of the most important issues related to this topic, including some generalizations obtained by the authors in the last years. Examples of special monogenic functions generated by this technique will be also presented. (Received December 28, 2011)