Locally Compact $Pro-C^*$ -algebras

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We consider the category of projective limits of C^* -algebras. One typical example is that of C(X) of all continuous functions on a completely Hausdorff, compactly generated topological space X. The other important example is the (unbounded) multiplier algebra of the Pedersen's ideal of a C^* -algebra. We call these "locally compact pro- C^* -algebras and characterize them among all pro- C^* -algebras.