

Securing/encrypting sensitive data with clear display in DataGrid

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I have an application that contains some sensitive data. I am displaying the table containing this data via a DataGrid, using an ADO.NET DataSet for the database access. I need to make sure the sensitive data is not stored in the database in clear-text, yet I need to provide clear-text display to authorized users. I had thought setting up an ItemBound event handler would do the trick, but while it does solve the problem, performing the decrypting the data in the handler and thus between fetch from disk and display to the user, it did this at the cost of removing the field from the set of text boxes made available when the DataGrid's EditItemIndex is set. Since I need to allow the user to treat the field as a normal field, changing it with any other non-read-only field in the grid, this is not an acceptable solution.

I am looking for pointers to approaches to solving this problem. I am sure this is not a unique issue, since any HIPPA compliant application using a DataSet bound to a DataGrid surely would encounter this issue. I just haven't hit on a search to find these solutions.