# Electromagnetic Compatibility

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Introduction

Electromagnetic Compatibility is related to the undesired generation, propagation and reception of harmful electromagnetic emissions. The emissions are rich in frequency components and can be picked up by intentional receivers like Radio and Television; or unintentional receivers like digital Computers. This can cause malfunction of the sensitive electronic equipment. High voltage power distribution lines generate electromagnetic emissions at the power frequency and its harmonics (50 Hz, 100 Hz, 150 Hz…). These emissions can be harmful for electrical and electronic equipment. Conversely, external interference can be coupled with Distribution lines as well. A Distribution System is Electromagnetically compatible with its environment if it produces minimum interference and is not susceptible to external interference.