

Title (en)

METHOD AND APPARATUS FOR AUTOMATICALLY DOWNLOADING PROFILE AND IMAGE FILES FOR OPTICAL NETWORK ELEMENTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUTOMATISCHEN LADUNG VON PROFIL - UND BILDDATEIEN FÜR OPTISCHE NETZWERKELEMENTE

Title (fr)

PROCEDE ET SYSTEME DE TELECHARGEMENT AUTOMATIQUE DE FICHIERS DES PROFILS ET D'IMAGES ASSOCIES A DES ELEMENTS DE RESEAU OPTIQUE

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Application

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Abstract (en)

[origin: WO9953714A1] A method and apparatus for automatic downloading and updating of network element SPFs and network element module software images. In one embodiment of the invention, a software routine executable through the network management system causes a new software profile file to be downloaded into the flash memory of each network node control processor as the node control processor secondary software profile file. The secondary node control processor image is then reconciled with the entry in the new software profile file. If the secondary node control processor image does not match the entry, then the proper secondary node control processor image is automatically downloaded or copied from another location. The secondary images of the optical data acquisition and control network element modules are then reconciled. If the secondary images do not match the corresponding entries in the new software profile file, then the proper images are downloaded, the most bandwidth-efficient way, via the system service channel. Once all secondary images are reconciled, the primary and secondary profile files and images are switched. After verification testing, primary software profile files and primary images are copied to the secondary software profile file and secondary images. The primary and secondary images may be further reconciled each time the node control processors are reset, and each time an optical data acquisition and control module is reset.

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