Title (en)

METHOD AND DEVICE FOR DISTRIBUTING SOFTWARE COMPONENTS OF ONE OR MORE APPLICATIONS TO INFRASTRUCTURE COMPONENTS OF AN INDUSTRIAL INFRASTRUCTURE SUITABLE FOR THE EXECUTION THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUM VERTEILEN VON SOFTWAREKOMPONENTEN EINER ODER MEHREREN APPLIKATIONEN AUF FÜR DEREN AUSFÜHRUNG GEEIGNETE INFRASTRUKTURKOMPONENTEN EINER INDUSTRIELLEN INFRASTRUKTUR

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DISTRIBUTION DE COMPOSANTS LOGICIELS D'UNE OU DE PLUSIEURS APPLICATIONS À DES COMPOSANTS D'INFRASTRUCTURE D'UNE INFRASTRUCTURE INDUSTRIELLE ADAPTÉE À LEUR EXÉCUTION

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Application

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Abstract (en)

[origin: WO2021239433A1] The invention relates to a computer-supported method for distributing software components of one or more applications to infrastructure components of an industrial infrastructure suitable for the execution thereof, said industrial infrastructure comprising a number of infrastructure components, which are formed by a number of computer nodes (C) and a number of network nodes (N), wherein an application has one or more software components which exchange and/or transfer data between one another via interfaces (I01 to I03, I13), wherein the computer nodes are/can be each connected to at least one infrastructure component via a connection, which is at least part of a communications network belonging to the infrastructure, to which the computer nodes are connected, wherein the computer nodes each have capability-specific characteristics and the connections each have transmission-specific characteristics, characterised in that the distribution of the software components is optimised with the aim that as many applications as possible of a predefined number of applications are used in the infrastructure with the proviso that each software component of an application is assigned to only one computer node on which it can be executed while taking the capability-specific characteristics into account, and that a connection or multiple connections coupled after one another via one or more network nodes is/are selected for each interface between at least two of these assigned software components, taking into consideration the transmission-specific and resource-specific characteristics.

IPC 8 full level

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CPC (source: EP)

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