

AP-211熱門認證 - AP-211最新考證

 CALIFORNIA MICRO DEVICES ▶▶▶▶▶

AP-211

Instantly Available PCI Card Power Management

Introduction

Today, PCs need to remain constantly connected to the outside world, but at the same time consume minimum power. Even when looking "idle", it is still possible to receive a message from the Internet or an incoming fax or phone call. The PC must automatically go from "sleep" mode to "on" mode. In other words, an "Instantly Available" PC (IAPC). The challenge is to maintain a system's modem or local Area Network (LAN) connectivity on a desktop PC even when at the same time minimizing power consumption. These power management features are called Wake-on-Ring (or Wake-on-Modem), Wake-on-LAN, and Wake-on-PMT (Power Management event).

The main qualities/benefits of such a system are:

- Listening: available anytime to receive messages from the outside world, and
- Reacting: responding anytime to do a specific operation (maintenance,...), and
- Saving energy and being silent in the idle mode.

The "OnNow" initiative by Microsoft defined the new requirements for the system that affect both software and hardware aspects of the PC. Wake-on-Ring operating system, applications, device drivers, and hardware within the system. All these elements must work together in order to provide a fully transparent power management system. This note will focus only on the hardware aspects.

ACPI System Design

An instantly available PC appears to be "off", yet it can snap back to its "full ready state" within seconds and respond to the phone ringing in time to service the call.

In order to meet these requirements a recommendation, the Advanced Configuration and Power Interface specification (ACPI), has been defined by Intel®, Microsoft®, and Toshiba®.

Instantly available motherboards include: ACPI BIOS, ACPI chip set, and PC does that are compliant to the PC-PM specification. The Intel chip set supports the power management features to define the ACPI's eco states and also generates the signals to control power planes to turn the main power supplies on and off.

The implementation includes multiple power sources and uses separate power planes in the system. Each power source is selected depending on the required state demanded by the system, and one of the major requirements is to switch between power sources continuously, automatically, and without interruption.

The "sleep" state of an instantly available PC is called "Suspend to RAM". This is implemented by using:

- soft power planes in the system design, and
- an auxiliary power source (V_{aux}) for dual mode power distribution.

It's focus on the PC (Peripheral Component Interface) cards, where California Micro Device's products have their primary applications. By definition, all PC add-on cards are connected to the motherboard through the PCI bus. On the PC connector, several pins have been reserved in order to support the instantly available functionality.

- PMT# (Power Management Event) pin (pin #A19) is used to wake the system in response to a PCI power management wake event, such as the phone ringing.
- 3.3Vaux pin (pin #A14) is used to deliver the auxiliary power of 3.3V to all the wake-up PCI cards in the system. This power is always available to keep the card active even when the rest of the PCI bus is without power.

Three different independent voltage sources are now available on the PCI bus: 3.3Vaux, 3.3V_{cc}, and 5V_{cc}. In a power plane partitioning system with an instantly available PC, the 3.3V_{aux} is electrically isolated from the main PCI 3.3V rail at all times. During normal operation, the 3.3V_{aux} supply remains on all the time, while the other main supplies, 3.3V_{cc} and 5V_{cc}, can be switched on and off as needed.

PCI Adapter Card Application

PCI Network Interface Cards (NIC) and modem cards are also designed with soft power planes. Thus, they are able to operate in a sleep mode with only the Vaux power supply and still be able to wake-up the system.

Some NICs that operate in "Wake on LAN" mode get a 5V standby through a cable that connects directly to a specific header on the motherboard.

Chip Set Voltage

Today, PCI card chip sets or ASICs operate at a low voltage of 3.3V. That allows much lower power consumption than with the previous 5V modem chips. However, "older" PCs are still operating at 5V and do not have any 3.3V aux supply. These PCI cards must be compatible with these systems still in service, and therefore must regulate on board their own 3.3V supply from the 5V. This is made possible by using California Micro Devices' SmartOR™ power management products: the CMPWR-00 and CMPWR-50. In addition, there is a maximum current limitation of 375mA on the 3.3V_{aux}.

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KaoGuTi感到最自豪的是能幫助考生通過很難的Salesforce AP-211考試，我們過去五年的成功率極高，可以讓您在職業生涯里有更好的發展前景。AP-211是IT專業人士的首選學習資料，特別是那些想自己在工作中有所提供的。我們的所有產品還不定期推出折扣優惠活動，給考生提供最有效的Salesforce AP-211考試學習資料。還提供完善的售后服務給顧客，購買AP-211考古題的顧客可以享受一年的免費更新。

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最新的 Salesforce Health Cloud AP-211 免費考試真題 (Q35-Q40):

問題 #35

How should a consultant recommend modeling a physician's locations of service, when the physician practices at multiple hospitals and clinics?

- A. Healthcare Provider Relationship
- B. Account Contact Relationship
- C. Healthcare Practitioner Facility
- D. Healthcare Taxonomy

答案: C

問題 #36

What are three requirements for implementing patients or members in Health Cloud?
Choose 3 answers

- A. Ensure the Parent Contact object is blank.
- B. Ensure 1-to-1 Account to Contact relationship.
- C. Ensure the Parent Account field is blank.
- D. Ensure the Account is the Parent to Household Accounts.
- E. Ensure the Person Account object Is used.

答案: B,D,E

問題 #37

Bloomington Caregivers needs to migrate Health Condition records from its previous org with International Classification of Diseases (ICD) information.

Which two objects should an administrator load with data prior to migrating this information, to ensure a successful data load?
Choose 2 answers

- A. Healthcare Diagnosis
- B. code set
- C. Clinical Encounter
- D. Account

答案: B,D

問題 #38

A consultant is working with an insurance provider to set up prior authorizations in Health Cloud. The provider requires a display of preauthorization outcomes from its external system which manages the end-to-end prior authorization process.

Which solution is appropriate to meet this use case?

- A. Care Request and Care Request Item
- B. Service Preauth and Preauth Detail
- C. Plan Benefit and Plan Benefit Item
- D. Care Preauth and Care Preauth Item

答案: B

解題說明:

In Salesforce Health Cloud, when dealing with prior authorizations, the correct data model objects are:

Service Preauth → Represents the overall prior authorization request (at the header level).

Preauth Detail → Captures the individual service line items or outcomes associated with the prior authorization.

This structure allows Health Cloud to integrate with an external utilization management system that handles the full prior authorization process. The Service Preauth object acts as the container for the request, while Preauth Detail records capture outcomes, decisions, and details returned from the external system.

This is exactly suited to the requirement:

"The provider requires a display of preauthorization outcomes from its external system which manages the end-to-end prior

authorization process." Why not the others?

- A . Plan Benefit and Plan Benefit Item - These are used to model insurance plan coverage and benefits, not authorization workflows.
- B . Care Preauth and Care Preauth Item - These are older, deprecated objects in favor of the Service Preauth data model.
- D . Care Request and Care Request Item - These are used to track referrals and service requests (e.g., a doctor requesting lab work), but not prior authorization outcomes.

Salesforce Health Cloud Reference:

Salesforce Health Cloud Developer Guide - Utilization Management Data Model:

"The Service Preauth object represents the prior authorization request and its details. The Preauth Detail object contains service line items and outcomes for the prior authorization request." Salesforce Help: Utilization Management Data Model Salesforce Health Cloud Implementation Guide - Prior Authorizations

問題 #39

A provider uses an external appointment management system. The default solution provided by Health Cloud is not viable for the provider.

How should a consultant implement a robust system for the provider?

- A. Create a custom FHIR Adapter to make calls to Health Cloud.
- B. Use a package created by ISV (Independent Software Vendor) for Health Cloud.
- **C. Create an Apex class and leverage Intelligent Appointment Management.**
- D. Use an electronic health record (EHR) routing system to book the appointment in Health Cloud

答案: C

問題 #40

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KaoGuTi剛剛發布了最新的AP-211認證考試所有更新的問題及答案，來確保您考試成功通過。我們提供最新的PDF和軟件版本的問題和答案，可以保證考生的AP-211考試100%通過。在我們的網站上，您將獲得我們提供的Salesforce AP-211免費的PDF版本的DEMO試用，您會發現這絕對是最值得信賴的學習資料。對於擁有高命中率的Salesforce AP-211考古題，還在等什么，趕快下載最新的題庫資料來準備考試吧！

AP-211最新考證: https://www.kaoguti.com/AP-211_exam-pdf.html

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