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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 (APC). The challenge is to maintain a system's memory 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-LAN (or Wake-on-Modem), Wake-on-LAN, and Wake-on-PM (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 (frame arrival...), 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. Windows operating systems, application drivers, device drivers, are "hardware-aware" in the system. All these elements must work together in order to provide a fully transparent power management system. The focus 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 PCI slots that are compliant to the PC/PM specification. The Intel chip set supports the power management features to define the ACPI's sleep 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 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:

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

Let's focus on the PCI (Peripheral Component Interface) cards, where California Micro Devices' products have their primary applications. By definition, a PCI add-in card is connected to the motherboard through the PCI bus. On the PCI connector, several pins have been reserved in order to support the instantly available functionality:

- Pin #11 (Power Management Event) pin (pin #A19) is used to wake the system in response to a PCI power management event, such as the phone ringing.
- 3.3V<sub>aux</sub> 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: 3.3V<sub>aux</sub>, 3.3V<sub>core</sub>, and 5V<sub>core</sub>. In a power plane partitioning system of an instantly available PC, the 5.3V<sub>core</sub> is electrically isolated from the main PCI 3.3V rail at all times. During normal operation, the 3.3V<sub>core</sub> supply remains on all the time, while the other main supplies, 3.3V<sub>aux</sub> and 5V<sub>core</sub>, can be switched on and off as needed.

### PCI Adapter Card Application

PCI Network Interface Cards (NIC) and modem cards are also designed with solid 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 modern chips. However, "older" PCs are still operating at 5V and can not have any 3.3V<sub>aux</sub> supply. New 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' SmartIOR™ power management products. The CMPWR 00 and CMPWR 50. In addition, there is a maximum current limitation of 375mA on the 3.3V<sub>aux</sub>.

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## Salesforce Health Cloud Accredited Professional Sample Questions (Q57-Q62):

### NEW QUESTION # 57

An administrator for Bloomington Caregivers has added an Enhanced Timeline to an existing Patient Lightning page showing patient interactions, including records from a custom object developed to track caregiver preferences.

What else should the administrator complete post deployment of the enhanced timeline?

- A. Add the Timeline component to the Patient Lightning page and activate the Timeline.
- **B. Add the custom object to the Timeline after deployment, then add it to the Timeline component.**
- C. Add the Timeline component to the Patient Lightning page and select the Timeline.
- D. Assign the users permissions to be able to view the Timeline before adding It to the Timeline component.

**Answer: B**

Explanation:

After deploying Enhanced Timeline, you must register the custom object to the Timeline before it will appear in the Timeline component on the Lightning page.

Extract:

"Add new objects to the Timeline after deployment in setup, then update the Timeline component to include them" (Source: Administer Health Cloud - Enhanced Timeline)

### NEW QUESTION # 58

An agent at a MedTech company requires a UI component that displays customer data and contains a link to create a new order. Once clicked, the link starts a process to build a new order and displays the available products for purchase.

Which three OmniStudio capabilities are required to solve this use case?

Choose 3 answers

- **A. Flexcards**
- B. Document Generation
- C. Integration Procedures
- **D. DataRaptors**
- **E. OmniScript**

**Answer: A,D,E**

Explanation:

The use case describes:

A UI component to display customer data → FlexCards

A link to start a process (build a new order) → OmniScript

Retrieving and displaying available products → DataRaptors (and often Integration Procedures if orchestration is needed).

Let's map it step by step:

D . FlexCards → Used to display contextual customer data on the UI and provide clickable actions (like "Create New Order").

E . OmniScript → Guides the user through the order creation process, step by step (product selection, details, confirmation).

A . DataRaptors → Extract and load Salesforce data (e.g., retrieving available products, saving the order).

These three are the core capabilities needed.

Why not the others?

B . Integration Procedures - Helpful if the solution requires multiple data sources or orchestration, but the question doesn't explicitly state external integration or complex orchestration. If data is all within Salesforce, DataRaptors are enough.

C . Document Generation - Used to create documents (PDFs, Word, etc.), which isn't part of this order creation flow.

Salesforce Health Cloud / OmniStudio Reference:

Salesforce OmniStudio Developer Guide

"FlexCards present contextual information and actions in a UI component."

"Use OmniScripts to guide users through business processes such as creating orders."

"DataRaptors retrieve, transform, and save Salesforce data for use in OmniScripts and FlexCards."

### NEW QUESTION # 59

An administrator is configuring security for a patient list.

Health Cloud Accredited Professional

Which three considerations should the administrator take into account to ensure proper access to the list?

Choose 3 answers

- A. When a user's field-level security restricts access to a field used as a display column, the column does not appear in the list.
- B. Administrators can restrict access using HCPatientListSecurity custom setting.
- C. Administrators can restrict access to patient or member lists using standard Salesforce sharing settings on the list.
- D. Users with profile or permission sets that restrict access to an object cannot create a list using that object.
- E. Administrators can create restriction rules to offset a private organization-wide default setting.

**Answer: A,C,D**

### NEW QUESTION # 60

A customer wants to leverage dependent intervention tasks as part of their care coordination solution using Integrated Care Management.

Which feature should a consultant configure to accomplish this task?

- A. Action Plan Templates
- B. Industry Template Library
- C. Intervention Templates
- D. Care Plan Task Templates

**Answer: A**

Explanation:

\* Dependent Intervention Tasks:

Exact Extract:

"Action Plan Templates allow you to define and manage dependent intervention tasks for integrated care management workflows, enabling conditional task sequencing." Reference:

\* Other Options:

Industry Template Library: Repository of templates, not task logic.

Intervention Templates and Care Plan Task Templates: Do not provide logic for dependent/conditional tasks within a care plan.

### NEW QUESTION # 61

A pharma company runs personalized medicine programs and needs the ability to coordinate various steps involved in the process, like apheresis and infusion.

Which Health Cloud capability should help the company with this program?

- A. Advanced Therapy Management
- B. Intelligent Document Automation
- C. Intelligent Sales
- D. Integrated Care Management

**Answer: A**

Explanation:

Step-by-Step Explanation:

Advanced Therapy Management (ATM):

For personalized medicine programs, such as those involving apheresis and infusion, Salesforce Health Cloud offers Advanced Therapy Management (ATM), specifically designed for complex therapy coordination.

Exact Extract:

"Advanced Therapy Management supports cell and gene therapy processes by coordinating multiple steps such as collection, manufacturing, apheresis, and infusion." Reference:

Why Not Other Options?

Integrated Care Management: Focuses on traditional care plans and care team coordination, not advanced therapies.

Intelligent Document Automation/Intelligent Sales: Not related to therapy process coordination.

Conclusion:

Advanced Therapy Management is the correct Health Cloud capability for coordinating personalized medicine program steps.

## NEW QUESTION # 62

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