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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 (IAPC). The challenge is to maintain a system's modes or local Area Network (LAN) connectivity on a desktop PC even while 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 qualitative 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. Windows 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.

Let's focus on the PC (Peripheral Component Interface) cards, where California Micro Devices' 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.

- PM# (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: 3.3V_{aux}, 3.3V_{IO}, and 5V_{IO}. 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_{IO} supply remains on all the time, while the other main supplies, 3.3V_{IO} and 5V_{IO}, 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 modern chips. However, "older" PCs are still operating at 5V and do not have any 3.3V_{aux} supply. Newer 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 CMPWR00 and CMPWR50. In addition, there is a maximum current limitation of 375mA on the 3.3V_{aux}.

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Salesforce AP-211 Exam Syllabus Topics:

Topic	Details
Topic 1	• Discovery: This domain covers identifying customer personas and stakeholders, defining required capabilities from use cases, and gathering functional and technical requirements to achieve desired business outcomes.
Topic 2	• Design: This domain encompasses creating Health Cloud solution designs using best practices, modeling healthcare entities with appropriate objects, determining specific capabilities to use, defining success metrics and reporting, implementing security and compliance, developing integration strategies, and creating data migration plans.
Topic 3	• Deploy: This domain addresses pre-deployment and post-deployment steps for specific use cases and Health Cloud capabilities, along with managing technical aspects through Mobile app capabilities.

Topic 4	• Implement: This domain focuses on installing Health Cloud, configuring applications and OmniStudio components, customizing features, implementing integrations and APIs, configuring security rules, and establishing reporting.
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High Pass-Rate AP-211 - Valid Salesforce Health Cloud Accredited Professional Test Pdf

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Salesforce Health Cloud Accredited Professional Sample Questions (Q65-Q70):

NEW QUESTION # 65

Bloomington Caregivers is looking to streamline the user experience for its call center agents. On the patient's record, the company wants the ability to:

Inform agents about changes in information

View basic details about a patient's insurance

Have a complete view of all engagement interactions in one place

Which three components from Contact Center for Health Cloud should a consultant use to achieve this?

- A. Member Plan FlexCard
- B. Identity Verification
- C. Timeline
- D. Record Alerts
- E. Action Launcher

Answer: A,C,D

Explanation:

Comprehensive Detailed Step by Step Explanation with exact Extracts from Salesforce Health Cloud documents that you have with Reference Record Alerts:

Notify agents of important or recent changes in patient information.

Extract:

"Use Record Alerts to keep agents informed of changes and critical updates on the patient's record."

- Contact Center for Health Cloud Overview

Timeline:

Provides a single, unified view of all engagement interactions, encounters, and activities with a patient.

Extract:

"Timeline shows a consolidated history of patient interactions and engagement, giving agents a complete view in one place."

- Health Cloud: Enhanced Timeline

Member Plan FlexCard:

Displays key patient insurance information directly on the record page.

Extract:

"The Member Plan FlexCard displays essential details about the patient's insurance coverage for agents."

- OmniStudio: FlexCards

Other Options:

A . Identity Verification: Used for verifying caller identity, not information display.

D . Action Launcher: Launches actions/processes, not for displaying info or alerts.

Reference:

Contact Center for Health Cloud Overview

Health Cloud: Enhanced Timeline

NEW QUESTION # 66

While implementing contracting as part of Provider Network Management, a customer wants to manage different types of payments. Which object should a consultant configure to achieve this?

- A. Value-Based Agreement
- B. Agreement Detail
- C. Care Fee Agreement
- **D. Payment Agreement**

Answer: D

NEW QUESTION # 67

Bloomington Caregivers wants to show its end users highlighted information about its providers that work at specific facilities, in one place. This would include provider contact details and the provider's specialty at a given facility. Which Health Cloud feature should a consultant implement to fulfill this requirement?

- A. Facility Relationship Center
- B. Provider Network Management
- **C. Provider Relationship Card**
- D. HCPProvider360 FlexCard

Answer: C

NEW QUESTION # 68

Bloomington Caregivers has decided to expand its Health Cloud implementation to include a Crisis Support Center. Which two steps should an administrator take as part of the implementation?
Choose 2 answers

- **A. Enable Crisis Support Center Management App in Setup.**
- B. Assign users the Health Cloud Crisis Support Center Management permission set license.
- C. Install the Crisis Support Center unmanaged package.
- **D. Review and modify the Crisis Center Intake flow in Flow Builder to meet requirements.**

Answer: A,D

NEW QUESTION # 69

Bloomington Caregivers is currently in the process of updating its systems as part of a corporate-wide digital transformation initiative. Which two considerations should a consultant include when configuring security, sharing, and visibility rules in Health Cloud to meet a healthcare organization's needs?
Choose 2 answers

- A. Review Salesforce documentation and implement a standardized security and visibility model.
- **B. Understand customer needs, data security, privacy concerns, regulatory compliance, and sharing or visibility restrictions.**
- **C. Regularly review and update security, sharing, and visibility settings in Health Cloud to align with evolving needs, regulations, and organizational policies.**
- D. Ensure that data mask is used in production to appropriately manage protected health information (PHI).

Answer: B,C

Explanation:

When configuring security, sharing, and visibility in Salesforce Health Cloud, consultants must consider healthcare-specific requirements such as HIPAA, GDPR, and organizational policies. Two critical considerations are:

B . Understand customer needs, data security, privacy concerns, regulatory compliance, and sharing or visibility restrictions.

Healthcare data involves PHI (Protected Health Information), which requires strict compliance with HIPAA and regional regulations.

"Review and update security, sharing, and visibility models regularly to address evolving business, regulatory, and compliance requirements."

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