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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 static) 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.

It'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.

- PMIC# (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_{pin}, and 5V_{pin}. In a power plane partitioning system with an instantly available PC, the 3.3V_{pin} is electrically isolated from the main PCI 3.3V rail at all times. During normal operation, the 3.3V_{pin} supply remains on all the time, while the other main supplies, 3.3V_{pin} and 5V_{pin}, 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 CMPWR-OC and CMPWR-SO. 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	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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 3	<ul style="list-style-type: none">• 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.

Topic 4	<ul style="list-style-type: none"> • 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.
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Salesforce Health Cloud Accredited Professional Sample Questions (Q14-Q19):

NEW QUESTION # 14

Bloomington Caregivers has reviewed the functionality of Integrated Care Management and decided to upgrade from the legacy Care Plans.

Which two statements are true with respect to Integrated Care Management?

Choose 2 answers

- A. Integrated Care Management leverages OmniStudio and the Discovery Framework to provide recommendations for what to add to a care plan based on the assessment.
- B. Integrated Care Management uses a standard object CarePlan; the Case object is no longer used.
- C. Existing Care Plan Template records built in the legacy process can be used in the Integrated Care Management process; no data migration is required.
- D. Integrated Care Management is only made available by enabling the Enhanced Care Management setting in Salesforce Setup.

Answer: A,D

NEW QUESTION # 15

A payer is looking to track relevant information for its provider network.

Which three objects are supported with Health Cloud out-of-the-box to track information related to a provider?

Choose 3 answers

- A. Board Certification
- B. Healthcare Practitioner Facility
- C. Practitioner Tier
- D. Provider Education
- E. Healthcare Provider Specialty

Answer: C,D,E

NEW QUESTION # 16

A company based in the United States requires a way to track medications that patients take in a standardized format and detect potential drug-to-drug interactions.

Which two Health Cloud solutions should a consultant recommend?

Choose 2 answers

- A. Medication Review
- B. Medication Audit
- C. Medication Administration

- **D. Medication Reconciliation**

Answer: C,D

NEW QUESTION # 17

A consultant is implementing Identity Verification for their customer's customer service representatives and needs to add a new search parameter.

Which record should the consultant configure to accomplish this?

- A. Identity Verification Process Detail
- B. Linked Identity Search Detail
- C. Verification Search Feature
- **D. Identity Verification Parameter Item**

Answer: D

Explanation:

In Salesforce Health Cloud's Identity Verification framework, you can configure which search parameters (such as date of birth, SSN, phone number, etc.) are used by customer service representatives to verify a member or patient's identity.

To add a new search parameter, you configure an Identity Verification Parameter Item record.

Identity Verification Parameter Item → Defines the actual search fields that will be used in the verification process.

These parameter items are tied to the Identity Verification Process Detail to determine how the verification is performed.

Why not the others?

A . Verification Search Feature - This controls whether identity verification search is enabled, but not the specific search parameters.

B . Identity Verification Process Detail - This defines the steps and rules of the verification process, but doesn't store the search fields themselves.

D . Linked Identity Search Detail - Used to configure linked identities across systems, not to add new search parameters.

Salesforce Health Cloud Reference:

Salesforce Help - Identity Verification in Health Cloud

"To configure the search fields that agents use for member or patient identity verification, create and manage Identity Verification Parameter Item records." Salesforce Health Cloud Identity Verification Documentation

NEW QUESTION # 18

While setting up Advanced Therapy Management, a consultant wants to have patients associated to Care Programs during enrollment. They need to customize the Health Cloud enrollment process to match their customer's process.

What should the consultant clone to customize for the customer, while leveraging out-of-the-box Health Cloud functionality?

- A. Apex Class
- B. FlexCard
- C. Flow
- **D. OmniScript**

Answer: D

Explanation:

In Salesforce Health Cloud Advanced Therapy Management (ATM), the enrollment process for associating patients to Care Programs is driven by OmniStudio OmniScripts.

Salesforce provides out-of-the-box OmniScripts for patient enrollment.

Best practice: Instead of building from scratch, you clone the delivered OmniScript and then customize it to align with your customer's unique enrollment process.

This approach ensures you continue to leverage Health Cloud's standard functionality while tailoring the process flow.

Why not the others?

A . FlexCard - Displays patient/care program info but doesn't handle the guided enrollment process.

B . Flow - Standard Salesforce Flows are not used for ATM enrollment; Health Cloud leverages OmniScripts for these guided workflows.

C . Apex Class - Only needed for custom logic; cloning Apex is not recommended for configuration/customization here.

Salesforce Health Cloud Reference:

Salesforce Health Cloud Implementation Guide - Advanced Therapy Management:

"Enrollment processes for patients into Care Programs are delivered as OmniScripts. To customize these processes, clone the

standard OmniScript and modify it to meet your business needs."

NEW QUESTION # 19

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