Process Solutions

Honeywell

Experion® Mobile Access R400
Specification

EP03-810-400
Release 400
December 2012, Version 2

Revision History

Revision	Date	Description
1.0	December 2012	Release version
2.0	December 2012	Formatted in new template and updated the image

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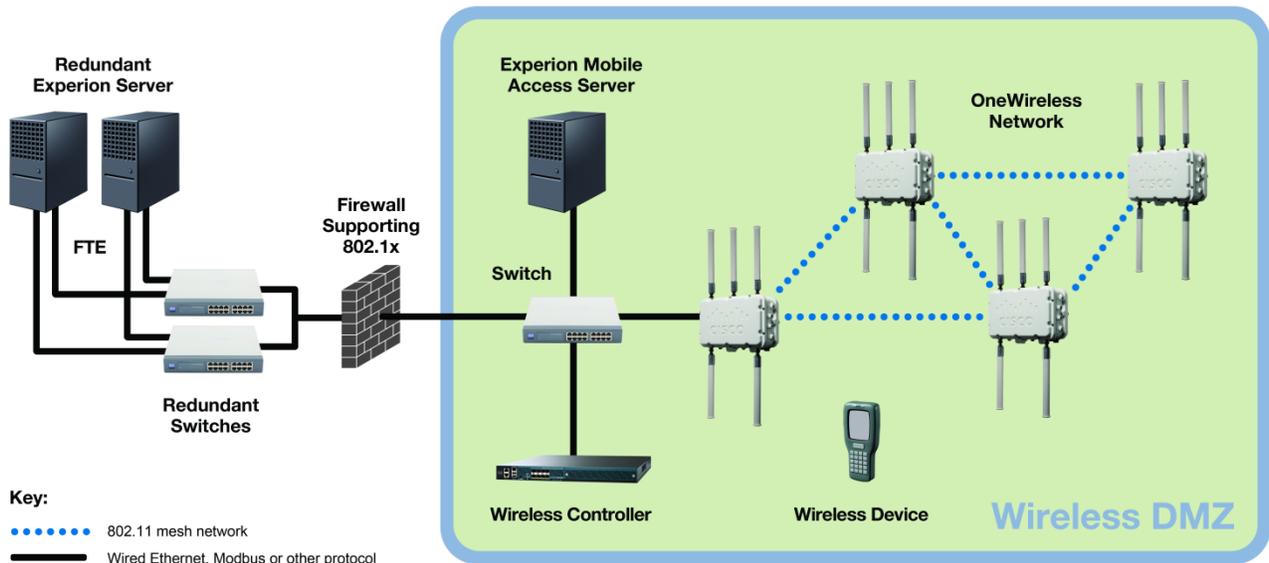
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1.   Product Introduction

1.1.   Experion System

The Experion® Process Knowledge System (PKS) is Honeywell's unified control system for process, business, and asset management. Experion PKS helps industrial manufacturers increase their profitability and productivity. It takes customers well beyond distributed control system (DCS) functionality with an advanced automation platform solution and innovative application integration to improve business performance and peace of mind. For additional information on Experion PKS, please consult www.honeywellprocess.com.

1.2.   Experion Mobile Access Overview

Experion Mobile Access enables mobile users to access key process information (e.g., data, alarms and trends) from the web browser of their mobile devices. Data routing between mobile devices and the Experion Mobile Access server is handled securely by Honeywell's OneWirelessTM Network. Mobile users can employ this tool to reduce the dependence of control room personnel for guidance and direction while carrying out field tasks.

Simplified Experion architecture showing Experion Mobile Access

1.3.   Experion Mobile Access Clients

The Experion Mobile Access is a zero-client application (i.e., no software is installed on the mobile devices). Users will have access to process information from the Experion Mobile Access Server via the web browser available on their mobile devices. Experion Mobile Access is therefore a platform-independent application at the client level. It will function with any mobile devices' web browser. For example: Dolphin®, iPhone™, iPad™, Android™, and Blackberry™ devices.

1.4.   Experion Mobile Access Server

The Experion Mobile Access Server is comprised of an eServer Base plus the Mobile Access Add-on Package. The server, located on the wireless DMZ, uses Honeywell's Distributed System Architecture (DSA) to get data from Experion servers.

2. Specifications

2.1. Client Sizing

Mobile Access Clients Per Server	Maxiumum 40

2.2. Database Sizing

Item	Specification	Comments
Maximum number of remote data access points	200,000	• Experion Mobile Access server connects to one or more Experion servers to view points using DSA. It enables access to real-time and historical data. • Remote data access points are created whenever a point is accessed using DSA that belongs to another server. • Remote data access points are not licensed.
Maximum number of DSA-connected servers	30	Experion Mobile Access Server connects to up to 30 Experion servers.

2.3. Display Types

Display Type Specifications	Specification
Mobile Access Clients	• Experion-inspired point faceplate for point with PV, SP, OP, MD (custom graphics not supported) • Search and navigation • Alarms • Simple trends
Note 1 – Since Mobile Access client is designed to run on small-screen handheld device (typically sub-4 inch), it does not support custom graphics. Note 2 – Mobile Access supports common SCADA, Process, ACE and TPS point types excluding AM/APP and EHG point types.	

2.4. Experion Mobile Access Server Data Subscribing Performance - WAN

From a networking point of view, the Experion Mobile Access Server is a separate server in the Experion DSA system. The following specifications apply to the network between the Experion Mobile Access Server and Experion server(s).

Available WAN Bandwidth[1]	Maximum Network Throughput (Parameters per Second)[2]
64 Kbps	100
128 Kbps	200
256 Kbps	400
512 Kbps	800
1 Mbps	1,000
2 Mbps	2,000
10 Mbps or more	10,000
Note 1 – "Available Network Bandwidth" means dedicated, continuously available bandwidth for DSA use between Experion Mobile Access Server and the Experion server(s).	
Note 2 – Maximum traffic on any individual network segment.	

2.5.   Experion Mobile Access Bandwidth Usage

The table below shows the maximum bandwidth usage of a single mobile client. The maximum bandwidth utilization is approximately 30 Kbps.

	Login Page	Alarm Group	Search Page	Search Usage	Alarm List	Faceplate	History Page
Data - MAX Kbps	30	30	10	30	30	30	30

2.6.   Experion Mobile Access interoperability

Distributed System Architecture interoperability is defined as a DSA-based runtime connection between the Experion Mobile Access Server and the Experion server(s). Experion Mobile Access, which leverages eServer capabilities, uses DSA to get data from Experion servers, so if different Experion versions are being used only those that enable DSA interoperability are supported.

Experion Mobile Access Release	Can Interoperate With:			
	Experion R410	Experion R400	Experion R301	Experion R210
R400	Yes	Yes	Yes	No
Differences between releases need to be taken into account. DSA interoperability does not include interoperability of Configuration Studio engineering tools such Quick Builder and Enterprise Model Builder.				

3.   Hardware and Software Requirements

3.1.   Experion Mobile Access Server Computer Requirements

Please refer to the Experion eServer R400 Specification for the computer requirements.

3.2.   Experion Mobile Access Client Platform Requirements

A mobile device must meet the following specifications to be used as an Experion Mobile Access client. These guidelines are intended to provide a minimum baseline.

System Configuration	Minimum
Browser Supported	All browsers (HTML4)
Mobile Device Screen Resolution	Minimum 320 X 240
Wireless Network and Security Scheme	IEEE 802.11 a/b/g/n with WPA2 security
Note 1 – Experion eServer base software includes one Quick Builder license, one Display Builder license, DSA connections to 30 Experion Servers, one Flex Station for administration purposes and unlimited Standard Access clients.	
Note 2 – Choose most economical combination of these client bundles to support required number of clients.	
Note 3– OneWireless network gear needs to be ordered separately to support Mobile Access system.	

4.   Model Numbers

Model Number	Description
EP-EBASE1[1]	eServer Base Package
EP-EMA400	Experion Mobile Access Add-on Package
EP-ETMM01[1]	Experion Mobile Access CAL - 1 User
EP-ETMM05[1]	Experion Mobile Access CAL - 5 Users
EP-ETMM10[1]	Experion Mobile Access CAL - 10 Users
Note 1 – Experion eServer base software includes one Quick Builder license, one Display Builder license, DSA connections to 30 Experion Servers, one Flex Station for administration purposes and unlimited Standard Access clients.	
Note 2 – Choose most economical combination of these client bundles to support required number of clients.	
Note 3– OneWireless network gear needs to be ordered separately to support Mobile Access system.	

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