

# EHR | HIE Interoperability WORKGROUP

Standards Crosswalk  
Stella Technology

# Summary

- IWG HPD+ 1.0 was developed before IHE HPD CP 601.
- CP 601 included most extensions from IWG HPD+ 1.0, with some slight differences.
- IWG HPD+ 1.1 is aligned with IHE HPD (with CP601).
  - Content:
    - Same directory schema.
    - IWG HPD+ 1.1 have place holders for attributes defined in S&I Framework, did not specify constraints on supporting those.
  - Interface: same WSDL
- Provider Directory Mod Spec:
  - Content: same as IWG HPD+ 1.1.
  - Interface: modified WSDL (aimed at error handling and federation support).
- Several issues need further clarification (work with IHE)

# HPD Schema Structure Changes

HPD Object	Object Class	LDAP Organization Unit (OU)				Comments
		IHE HPD	IWG HPD+ 1.0	IHE HPD CP601	IWG HPD+ 1.1	
<b>Individual Provider</b>	HCPProfessional	HCPProfessional	Providers	-	Same as HPD	-
<b>Organizational Provider</b>	HCTRegulatedOrganization	HCTRegulatedOrganization	Organizations	-	Same as HPD	-
<b>Relationships</b>	groupOfNames	Relationship	-	-	-	Work with IHE on appropriate use of <b>Relationship</b> vs. <b>HPDProviderMembership</b>
<b>Credentials</b>	HPDCredential	HPDCredential	Credentials	-	Same as HPD	-
<b>Individual-Organization</b>	<i>HPDProviderMembership</i> (defined in CP601)	N/A	Memberships	<i>(HPDProviderMembership)</i>	Same as CP 601	IHE HPD CP 601 defined the object class but not the standardized OU. The standard OU used here is consistent with HIE HPD naming convention..
<b>Electronic Services</b>	<i>HPDElectronicService</i> (defined in CP601)	-	Services	<i>(HPDElectronicService)</i>	Same as CP 601	-

# HPD Object Attributes Changes. 1 of 3

Object	Concept	LDAP Attribute				Comments
		IHE HPD	HPD+ 1.0	IHE HPD CR601	HPD+ 1.1	
Individual	Provider business phone	telephoneNumber	telephone	-	Same as HPD	-
	Credential	hpdCredential	credentialName	-	Same as HPD	-
	Specialty	hcSpecialisation	hcSpecialization	-	Same as HPD	-
	Legal Address	-	-	hpdProviderLegalAddress	Same as CP 601	-
	Date of Birth	-	-	-	dateOfBirth	In S&I. Place holder in HPD+
	Digital cert ID	-	-	-	digitalCertificateID	Same as above
	Digital cert DN	-	-	-	digitalCertificateDN	Same as above
Organization	Org Type Description	description	orgTypeDesc	-	Same as HPD	-
	Credential	hpdCredential	credentialName	-	Same as HPD	-
	Legal Address	-	-	hpdProviderLegalAddress	Same as CP 601	-
	Email	-	email	-	Same as HPD+ 1.0	In S&I. Place holder in HPD+
	Policy Information	-	policyInformation	-	Same as HPD+ 1.0	Same as above
	Digital cert ID	-	-	-	digitalCertificateID	Same as above
	Digital cert DN	-	-	-	digitalCertificateDN	Same as above

# HPD Object Attributes Changes. 2 of 3

Object	LDAP Attribute					Comments
	Concept	IHE HPD	HPD+ 1.0	IHE HPD CP601	HPD+ 1.1	
Individual Organization	-	-	hpdMemberName	-	removed	Not in S&I
	-	-	hpdMemberStatus	-	Removed	Not in S&I
	-	-	hpdMemberType	-	Removed	Not in S&I
	-	-	hpdMemberTelephone	telephoneNumber	Same as CP 601	-
	-	-	-	fascimileTelephoneNumber	Same as CP601	-
	-	-	-	mobile	Same as CP601	-
	-	-	-	Pager	Same as CP601	-
	-	-	hpdMemberEmail	Mail	Same as CP601	-
	Digital cert	-	-	-	digitalCertificate	In S&I. Place holder in HPD+
	Digital cert ID	-	-	-	digitalCertificateID	Same as above
	Digital cert DN	-	-	-	digitalCertificateDN	Same as above

# HPD Object Attributes Changes. 3 of 3

Object	Concept	LDAP Attribute				Comments
		IHE HPD	HPD+ 1.0	IHE HPD CP601	HPD+ 1.1	
Electronic Service	-	-	hpdServicePayload	hpdContentProfile	Same as CP601	-
	-	-	hpdServiceProtocol	hpdIntegrationProfile	Same as CP601	-
	-	-	hpdServiceType	-	Removed	Not in S&I
	-	-	-	hpdCertificate	Same as CP601	-
	-	-	-	-	hpdSecurityProfile	In S&I. Place holder in HPD+
	-	-	-	-	hpdIntegrationProfileVersion	Same as above
	-	-	-	-	hpdIntegrationProfileOption	Same as above
	-	-	-	-	hpdIntegrationProfilePreferredMethod	Same as above

# IWG HPD+ 1.1 Guideline

- **Direct Email:**

- HPDElectronicService.hpdserviceAddress
  - Where integration profile is 'DirectProjectSMTP'

\* CA guideline: also check hpdserviceAddress

- **Individual Organization Relationship**

- Determined by hpdserviceAddress objects
- provider.memberOf & Relationship not used

# Issues to work with IHE

- Proper usage of Relationship and HPDProviderMembership.
- Proper usage of labeledURI (previous HPD attribute for electronic service URI) and HPDElectronicService.
- Proper usage of different certificate attributes
  - userSMIMECertificate
  - userCertificate
  - hcSigningCertificate
  - hcOrganizationCertificate
  - hpdElectronicService.hpdCertificate

# Provider Directory ModSpec Standards

- Directory Content: Same as HPD+ 1.1
- Interface:
  - New WSDL
  - Different message types: HPDPlusRequest and HPDPlusResponse
    - new elements and types: HPDPlusMetadata, HPDPlusRequestID, .....
- Initiating IHE new work item process