# **Privacy Management Reference Model** and Methodology (PMRM) Version 1.0

# Committee Specification Draft 01 /02 / Public Review Draft 01-02

# 12 April13 December 2012

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The Privacy Management Reference Model and Methodology (PMRM, pronounced "pim-rim")	Formatted: Space After: 0 pt
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Style Definition: Normal

- understanding and analyzing privacy policies and their privacy management requirements in 
  defined use cases; and
- selecting the technical services which must be implemented to support privacy controls.

It is particularly relevant for use cases in which personal information (PI) flows across regulatory, - policy, jurisdictional, and system boundaries.

#### Status:

This document was last revised or approved by the OASIS Privacy Management Reference Model (PMRM) TC on the above date. The level of approval is also listed above. Check the "Latest version" location noted above for possible later revisions of this document.

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## 1 **1 Introduction**

The Privacy Management Reference Model and Methodology (PMRM) addresses the reality of today's 2 3 networked, interoperable capabilities, applications and devices and the complexity of managing personal 4 information (PI)<sup>1</sup> across legal, regulatory and policy environments in interconnected domains. -It is a 5 valuable tool that helps improve privacy management and compliance in cloud computing, health IT, 6 smart grid, social networking, federated identity and similarly complex environments where the use of 7 personal information is governed by laws, regulations, business contracts and otheroperational policies, 8 but where traditional enterprise-focused models are inadequate. It can be of value to business and program managers who need to understand the implications of privacy policies for specific business 9 10 systems and to help assess privacy management risks.

11 The PMRM is neither a static model nor a purely prescriptive set of rules (although it includes

12 characteristics of both), and implementers have flexibility in determining the level and granularity of

13 analysis required by a particular use case. The PMRM can be used by systems architects to inform the

development of a privacy management architecture. The PMRM may also be useful in fostering

15 interoperable policies and policy management standards and solutions. In many ways, the PMRM 16 enables "privacy by design" because of its analytic structure and primarily operational focus.

17 **1.1 Context** 

18 Predictable and trusted privacy management must function within a complex, inter-connected set of networks, systems, applications, devices, data, and associated governing policies. Such a privacy 19 20 management capability is needed both in traditional computing and in cloud computing capability delivery 21 environments. A useful privacy management capability must be able to establish the relationship 22 between personal information ("PI") and associated privacy policies in sufficient granularity to enable the 23 assignment of privacy management functionality and compliance controls throughout the lifecycle of the PI. -It must also accommodate a changing mix of PI and policies, whether inherited or communicated to 24 25 and from external domains or imposed internally. It must also include a methodology to carry out a 26 detailed, structured analysis of the application environment and create a custom privacy management analysis (PMA) for the particular use case. 27

### 28 1.2 Objectives

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The PMRM is used to analyze complex use cases, to understand and implement appropriate operational
 privacy management functionality and supporting mechanisms, and to achieve compliance across policy,
 system, and ownership boundaries. <u>It may also be useful as a tool to inform policy development.</u>

In addition to Unless otherwise indicated specifically or by context, the use of the term 'policy' or 'policies' in this document may be understood as referencing laws, regulations, contractual terms and conditions,

or operational policies associated with the collection, use, transmission, storage or destruction of personal information or personally identifiable information.

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<sup>1</sup> There is a distinction between 'personal information' (PI) and 'personally identifiable information' (PII) – see Glossary. However, for clarity, the term 'PI' is generally used in this document and is assumed to cover both. Specific contexts do, however, require that the distinction isbe made explicit.

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36 While serving as an analytic tool, the PMRM can also aid the design of a privacy management 37 architecture in response to use cases and as appropriate for a particular operational environment. It can 38 also be used to help in the selection of integrated mechanisms capable of executing privacy controls in line with privacy policies, with predictability and assurance. Such an architectural view is important, 39 40 because business and policy drivers are now both more global and more complex and must thus interact with many loosely-coupled systems. 41 In addition, multiple jurisdictions, inconsistent and often-conflicting laws, regulations, business practices, 42 43 and consumer preferences, together create huge barriers to online privacy management and compliance. 44 It is unlikely that these barriers will diminish in any significant way, especially in the face of rapid 45 technological change and innovation and differing social and national values, norms and policy interests. 46 It is important to note that agreements may not be enforceable in certain jurisdictions. And a dispute over jurisdiction may have significant bearing over what rights and duties the Participants have regarding use 47 48 and protection of PI. Even the definition of PI will vary. The PMRM attempts to address these issues. 49 Because data can so easily migrate across jurisdictional boundaries, rights cannot be protected without 50 explicit specification of what boundaries apply. 51 The Privacy Management Reference Model and Methodology therefore provides policymakers, program and business managers, system architects and developers with a tool to improve privacy management 52 53 and compliance in multiple jurisdictional contexts while also supporting capability delivery and business objectives. In this Model, the controls associated with privacy (including security) will be flexible, 54 configurable and scalable and make use of technical mechanisms, business process and policy 55 56 components. These characteristics require a specification that is policy-configurable, since there is no 57 uniform, internationally-adopted privacy terminology and taxonomy. 58 Analysis and documentation produced using the PMRM will result in a Privacy Management Analysis (PMA) that serves multiple stakeholdersStakeholders, including privacy officers and managers, general 59 compliance managers, and system developers. While other privacy instruments, such as privacy impact 60 assessments ("PIAs"), also serve multiple stakeholdersStakeholders, the PMRM does so in a way that is 61 somewhat different from these others. Such instruments, while nominally of interest to multiple 62 Stakeholders, tend to serve particular groups. For example, PIAs are often of most direct 63 64 concern to privacy officers and managers, even though developers are often tasked with contributing to 65 them. Such privacy instruments also tend to change hands on a regular basis. As an example, a PIA may 66 start out in the hands of the development or project team, move to the privacy or general compliance function for review and comment, go back to the project for revision, move back to the privacy function for 67 68 review, and so on. This iterative process of successive handoffs is valuable, but can easily devolve into a 69 challenge and response dynamic that can itself lead to miscommunication and misunderstandings. 70 The PMRM process output from using the PMRM, in contrast, should have direct and ongoing relevance for all stakeholders Stakeholders and is less likely to suffer the above dynamic. This is because it should 71 be considered as a "boundary object," a construct that supports productive interaction and collaboration 72 73 among multiple communities. Although a boundary object is fully and continuously a part of each relevant community, each community draws from it meanings that are grounded in the group's own needs and 74 75 perspectives. As long as these meanings are not inconsistent across communities, a boundary object acts as a shared yet heterogeneous understanding. The PMRM process output, if properly generated, 76 constitutes just such a boundary object. It is accessible and relevant to all sta 77 lersStakeholders. but each group takes from it and attributes to it what they specifically need. As such, the PMRM can facilitate 78 79 collaboration across relevant communities in a way that other privacy instruments often cannot. Formatted: Indent: Left: 0", Hanging: 0.4" 1.3 Target AudienceAudiences 80 81 The intended audiences of this document and expected benefits to be realized include: Privacy and Risk Officers will gain a better understanding of the specific privacy management 82 • environment for which they have compliance responsibilities as well as detailed policy and 83 operational processes and technical systems that are needed to achieve their organization's privacy 84 85 compliance; 86 Systems/Business Architects will have a series of templates for the rapid development of core • 87 systems functionality, developed using the PMRM as a tool.

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- 88 Software and Service Developers will be able to identify what processes and methods are required to ensure that personal data is created and managed in accordance with requisite privacy provisions. **Public policy makers** and business owners will be able to identify any weaknesses or 89
- 90 ٠
- 91 shortcomings of current policies and use the PMRM to establish best practice guidelines where 92 needed.

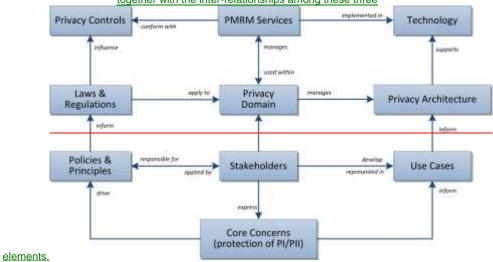
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## **1.4 Specification Summary**

#### 95 The PMRM consists of: 96

- A conceptual model of privacy management, including definitions of terms; •
- 97 A methodology; and •
- 98 A set of operational services, tegether with . 99 together with the inter-relationships among these three



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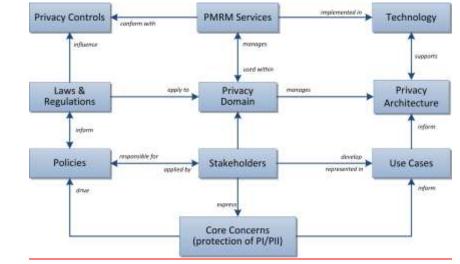
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# 101



#### 102

#### 103 Figure 1 – The PMRM Conceptual Model

104 In Figure 1, we see that the core concern of privacy protection-(, is expressed by usersStakeholders 105 (including data subjects, policy makers, solution providers, etc.) helps who help, on the one hand, drive

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- 106 policy and principles policies (which in turnboth reflect and influence actual regulation and lawmaking);
- 107 and on the other hand, <u>informsinform</u> the use cases that are developed to address the specific 108 architecture and solutions required by the <u>stakeholdersStakeholders</u> in a particular domain.
- are interesting and solutions required by the bitaneonology are bitaneonology and bi
- Legislation in its turn is a major influence on privacy controls indeed, privacy controls are often
   expressed as policy objectives rather than as specific technology solutions and these form the basis of
- expressed as policy objectives rather than as specific technology solutions and these form t the PMRM Services that are created to conform to those controls when implemented.
- 112 The PMRM conceptual model is anchored in the principles of Service-Oriented Architecture (and 113 particularly the principle of services operating across ownership boundaries). Given the general reliance
- by the privacy policy community on non-uniform definitions of so-called "Fair Information
- 115 Practices/Principles" (FIP/Ps), a non-normative, working set of operational privacy definitions (see
- 116 section- 8.1) is used to provide a foundation for the Model. With their operational focus, these working
- definitions are not intended to supplant or to in any way suggest a bias for or against any specific policy or policy set. However, they may prove valuable as a tool to help deal with the inherent biases built into
- 119 current terminology associated with privacy and to abstract their operational features.
- The PMRM methodology covers a series of tasks, outlined in the following sections of the document,concerned with:
- defining and describing use-cases;
- identifying particular business domains and understanding the roles played by all actors
   and systems within that domain in relation to privacy issues;
- 125 identifying the data flows and touch-points for all personal information within a privacy domain;
- specifying various privacy controls;
- mapping technical and process mechanisms to operational services;
- 128 performing risk and compliance assessments.

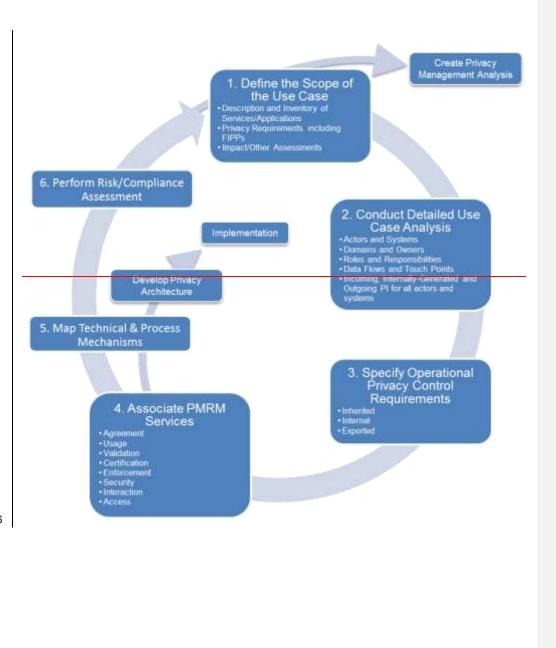
129 The specification also defines a set of Services deemed necessary to implement the management and 130 compliance of detailed privacy requirements within a particular use case. The Services are sets of

- functions which form an organizing foundation to facilitate the application of the model and to support the identification of the specific mechanisms which will be incorporated in the privacy management
- architecture appropriate for that use case. The set of operational services (Agreement, Usage, Validation
   Certification, Enforcement, Security, Interaction, and Access) is described in Section 4 below.
- 135 The core of the specification is expressed in two normative sections: the High Level Privacy Analysis and

the Detailed Privacy Management Reference Model Description. The Detailed PMRM Description section

- 137 is informed by the general findings associated with the High Level Analysis. However, it is much more
- 138 detail-focused and requires development of a use case which clearly expresses the complete application
- and/or business environment within which personal information is collected, communicated, processed,
   stored, and disposed.
- 141 It is also important to point out that the model is not generally prescriptive and that users of the
- 142 modelPMRM may choose to adopt some parts of the model and not others. However, a complete use of
- 143 the model will contribute to a more comprehensive privacy management architecture for a given capability
- 144 or application. As such, the PMRM may serve as the basis for the development of privacy-focused
- 145 capability maturity models and improved compliance frameworks. The PMRM provides a model
- 146 foundation on which to build privacy architectures.
- Use of the PMRM by and within a particular business domain and context (with a suitable Use Case), will
   lead to the production of a Privacy Management Analysis (PMA). An organization may have one or more
- PMAs, particularly across different business units, or it may have a unified PMA. Theoretically, a PMA may apply across organizations, states, and even countries or other geo-political regions.
- 151 Figure 2 below shows the high-level view of the PMRM methodology that is used to create a PMA.
- 152 Although the stages are numbered for clarity, no step is an absolute pre-requisite for starting work on
- 153 another step and the overall process will usually be iterative. Equally, the process of establishing an
- 154 appropriate privacy architecture, and determining when and how technology implementation will be
- 155 carried out, can both be started at any stage during the overall process.

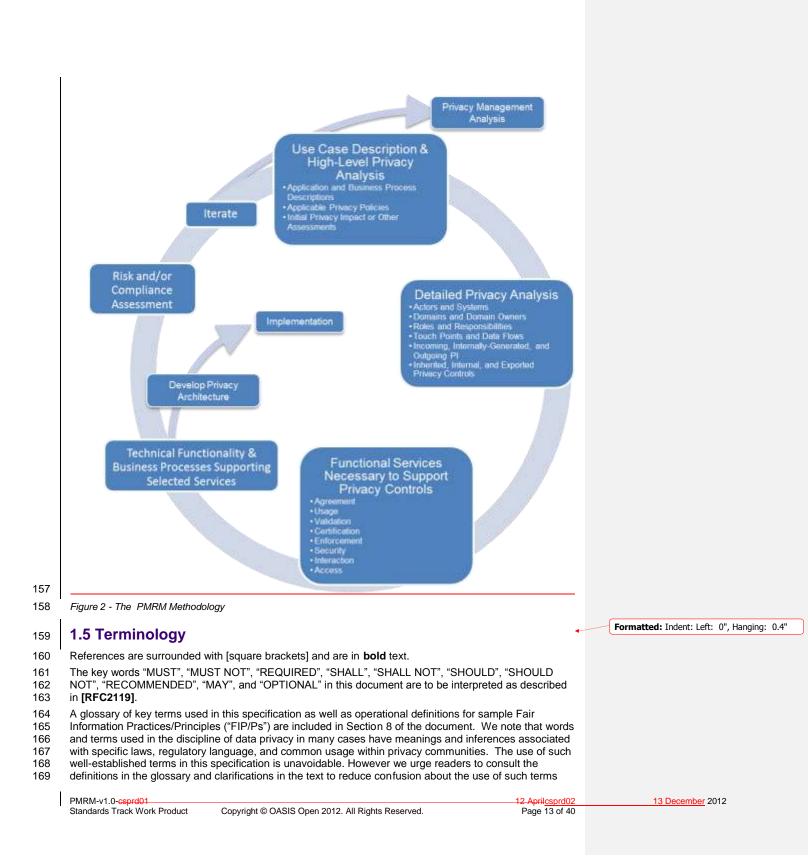
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179 180 181	[SOA-RAF]	OASIS Specification, "Reference Architecture Foundation for SOA v1.0", <u>November 2012. http://docs.oasis-open.org/soa-rm/soa-ra/v1.0/cs01/soa-ra-v1.0</u> <u>cs01.pdf</u>	<u> -</u>	
182 183 184	[NIST 800-53]	"Security and Privacy Controls for Federal Information Systems and Organizations – Appendix J: Privacy Controls Catalog", NIST Special Publication 800-53 Draft Appendix J, July 2011.	I	

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# 185 2 Develop Use Case Description and High-Level Privacy Analysis and Use Case Description

The first phase in applying the PMRM methodology requires the scoping of the application or business
service in which personal information (PI) is associated - in effect, identifying the complete environment in
which the application or capabilities where privacy and data protection requirements are applicable. The
extent of the scoping analysis and the definitions of "application" or "business capability" are set by the
entity utilizingStakeholders using the PMRM within a particular domain. These may be defined broadly or
narrowly, and may include lifecycle (time) elements.

The high level analysis may also make use of privacy impact assessments, previous risk assessments, privacy maturity assessments, compliance reviews, and accountability model assessments as determined by the user of the PMRM.domain Stakeholders. However, the scope of the high level privacy analysis (including all aspects of the capability or application under review and all relevant privacy policies) must correspond with the scope of the second phase, covered in Section 3, "Detailed Privacy Use Case

198 Analysis", below.

#### 199 2.1 Application and Business Process Descriptions

#### 200 Task #1: Use Case Description

#### 201 **Objective** Provide a general description of the Use Case.

#### 202 Example<sup>2</sup>

A California utility, with a residential customer base with smart meters installed, wants to promote the
 increased use of electric vehicles in its service area by offering significantly reduced electricity rates for
 nighttime recharging of vehicle battery. The system also permits the customer to use the charging
 station at another customer's site [such as at a friend's house] and have the system bill the vehicle
 owner instead of the customer whose charging station is used.

208TheThis Use Case involves utility customers who have registered with the utility to enable EV charging209(EV customer). An EV customer plugs in the car\_at her residence and requests "charge at cheapest210rates". The utility is notified of the car's presence, its ID number and the approximate charge required211(provided by the car's on board computer). The utility schedules the recharge to take place during the212evening hours and at different-times than other EV chargingdetermined by the utility (thus putting213diversity into the load).

214The billing department now calculates the amount of money to charge the EV customer based on EV215rates and for the measured time period.

The same EV customer drives to a friend's home (who also has ana registered EV customer) and
 requests a quick charge to make sure that heshe can get back home. When heshe plugs hisher EV into
 hisher friend's EV charger, the utility identifies the fact that the EV belongeis linked to a different

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<sup>2</sup> Note: The boxed examples are not to be considered as part of the normative text of this document.

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219 220	customer account than that of the site resident, and places the charging bill on the correct person'scustomer's invoice.
221 222	The billing department now calculates the amount of money to invoice the customer who owns the EV, based on EV rates and for the measured time period.
223 224 225	The utility has a privacy policy that incudes selectable options for customers relating to the use of PI and PII associated with location and billing information, and has implemented systems to enforce those policies.

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226			J	
227	Task #2:	Use Case Inventory		Formatted: Indent: Left: 0", Hanging: 0.98"
228 229 230 231 232 233	Objective	Provide an inventory of the capabilities, applications and policy environment under review at the level of granularity appropriate for the analysis covered by the PMRM and define a High Level Use Case which will guide subsequent analysis. In order to facilitate the analysis described in the Detailed Privacy Use Case Analysis in Section 4, the components of the Use Case Inventory should align as closely as possible with the components that will be analyzed in the corresponding detailed use case analysis.		
234 235 236 237 238 239 240	Context	The inventory can include applications and business processes; products; policy environment; legal and regulatory jurisdictions; systems supporting the capabilities and applications; data; time; and other factors Impacting the collection, communication, processing, storage and disposition of PI. The inventory should also include the types of data subjects covered by the use case together with <u>individual userspecific</u> privacy options (such as policy preferences, privacy settings, etc. if these are formally expressed)-) for each type of data subject.		Formatted: Space After: 6 pt
241	Example			
242	Systems:	Utility Communications Network, Customer Billing System, EV On Board System		
243	Legal and R	egulatory Jurisdictions:		
244 245		California Constitution, Article 1, section 1 gives each citizen an "inalienable right" to pursue and obtain "privacy."		
246		Office of Privacy Protection - California Government Code section 11549.5.		
247		Automobile "Black Boxes" - Vehicle Code section 9951.		
248				
249	Personal Info	ormation Collected on Internet:		
250		Government Code section 11015.5. This law applies to state government agencies		
251 252 253 254		The California Public Utilities Commission, which "serves the public interest by protecting consumers and ensuring the provision of safe, reliable utility service and infrastructure at reasonable rates, with a commitment to environmental enhancement and a healthy California economy"		
255	Policy:	The Utility has a published Privacy Policy covering the EV recharging/billing application		
256				
257	Customer:	The Data Subject_can accept defaultCustomer's selected settings for allpolicy options		Formatted: Underline
258		presented via customer-facing interfaces or customize the settings.		
259	2.2 Applic	able Privacy Policies		Formatted: Indent: Left: 0", Hanging: 0.4"
260	Task #3:	Privacy Policy Conformance Criteria		Formatted: Indent: Left: 0", Hanging: 0.98"
261 262 263 264 265 266	Objective	Define and describe the criteria for conformance of a system or business process (identified in the use case and inventory) with an applicable privacy policy. As with the Use Case Inventory described in Task #-2 above, the conformance criteria should align with the equivalent elements in the Detailed Privacy Use Case Analysis described in Section 3. Wherever possible, they should be grouped by the relevant FIP/Ps and expressed as privacy constraints.		
267 268		reas Task #2 itemizes the environmental elements relevant to the Use Case, Task #3 privacy requirements specifically.		
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269	Example		
270	Privacy Poli	cy Conformance Criteria:	
271	(1) Ensure t	hat the utility does not share data with third parties without the consumer's consentetc.	
272	(2) Ensure t	hat the utility supports strong levels of:	
273	(a) Iden	tity authentication	
274	(b) Sec	urity of transmission between the charging stations and the utility information systemsetc.	
275	(3) Ensure t	hat personal data is deleted on expiration of retention periods	
276			
277	2.3 Initial	Privacy Impact (or other) Assessment(s) [optional]	 Formatted: Indent: Left: 0", Hanging: 0.4"
278	Task #4:	Assessment Preparation	 Formatted: Indent: Left: 0", Hanging: 0.98"
279 280 281 282 283	Objective	Prepare an initial privacy impact assessment, or as appropriate, a risk assessment, privacy maturity assessment, compliance review, or accountability model assessment applicable within the scope of analysis carried out in <u>stepssections</u> 2.1 and <u>0.2.2 above</u> . Such an assessment can be deferred until a later iteration step (see Section 4.3) or inherited from a previous exercise.	
284	Example		
285 286		ectric Vehicle (EV) has a unique ID, it can be linked to <del>an individual. Individuals'<u>a specific</u> <u>s such, customer's</u> whereabouts may be tracked through utility transaction visibility…</del>	
287 288		rging and vehicle management system may retain data, which can be used to identify charging and location information that can constitute PI.	
289 290		guards are in place and (where appropriate) under the user's <u>customer</u> control, there is a intentionally anonymized PI nonetheless become PII	
291 292 293 294	advertisers	ishes to capture behavioral and movement patterns and sell this information to potential or other information brokers to generate additional revenue. This information constitutes PII. on and use of this information should only be done with the explicit, informed consent of the <u>er</u> .	

295	3 Devel	op Detailed Privacy <del>Use Case</del> Analysis	
296	3.1 Use Ca	ase Development	
297 298 299	Goal	Prepare and document a detailed Privacy Management Analysis of the Use Case which corresponds with the High Level Privacy Analysis and the High Level Use Case Description.	Formatted: Font: Bold
300 301	Constraint	The Detailed Use Case must be clearly bounded and must include the following components.	
302	Task #5: - I	dentify Actors	
303 304		y Participants and Systems, Domains and Domain Owners, and Responsibilities, Touch Points and Data Flows	
305	<u>Task #5:</u>	Identify Participants	
306	Objective	Identify actors Participants having operational privacy responsibilities.	
307 308 309	Definition	An actor <u>A "Participant"</u> is a data subject or a human or a non-human agentany Stakeholder creating, managing, interacting with, or otherwise subject to, PI managed by a System within a Privacy Domain.	
310 311 312 313		A "domain" covers both physical areas (such as a customer site or home) and logical areas (such as a wide-area network or cloud computing environment) that are subject to the control of a particular domain owner.	
314	Example	-	1
315	ActorsPartici	pants Located at the Customer Site:	
316	Registere	ed Customer <del>, Guest</del>	
317	ActorsPartici	pants Located at the EV's Location:	
318	Non-Reg	istered Customer Host (Temporary host for EV charging)), Registered Customer Guest	
319	ActorsPartici	pants Located within the Utility's domain:	
320	Service F	Provider (Utility)	
321	Contracto	ors and Suppliers to the Utility	
322	Task #6:	Identify Systems	Formatted: Indent: Left: 0", Hanging: 0.98"
323 324	Objective	Identify the Systems where PI is collected, communicated, processed, stored or disposed within a Privacy Domain.	
325 326 327	Definition	For purposes of this specification, a System is a collection of components organized to accomplish a specific function or set of functions having a relationship to operational privacy management.	

328	Example		
329	<u>System</u> Loca	ted at the Customer Site <mark>:(s):</mark>	
330	Custon	ner Communication Portal	
331	EV Phy	vsical Re-Charging and Metering System	
332	<u>System</u> Loca	ted in the EV <del>:[s]:</del>	
333	EV: De	vice	
334	EV On	Board System: System	
335	<u>System</u> Loca	ted within the EV manufacturer's domain:	
336	EV Cha	arging Data Storage and Analysis System	
337	<u>System</u> Loca	ted within the Utility's domain:	
338 339		gram Information System (includes Rates, Customer Charge Orders, Customers enrolled rogram, Usage Info etc.)	
340	EV Loa	d Scheduler System	
341	Utility E	Billing System	
342	Remot	e Charge Monitoring System	
343	Partne	marketing system for transferring usage pattern and location information	
344	Task #7:		Formatted: Indent: Left: 0", Hanging: 0.98"
345		Identify Privacy Domains and Owners	
346	Objective	Identify Privacy Domains and Owners Identify the Privacy Domains included in the use case together with the respective Domain Owners.	
346 347 348 349 350	Objective Definition	Identify the Privacy Domains included in the use case together with the respective	
347 348 349	-	Identify the Privacy Domains included in the use case together with the respective Domain Owners. Privacy Domains are the <u>A</u> "Domain" covers both physical areas (such as a customer site or home) and logical areas within the use case (such as a wide-area network or cloud computing environment) that are subject to the control by Domain Owners of a particular	
347 348 349 350 351 352	-	Identify the Privacy Domains included in the use case together with the respective Domain Owners. Privacy Domains are the <u>A</u> "Domain" covers both physical areas (such as a customer site or home) and logical areas within the use case (such as a wide-area network or cloud computing environment) that are subject to the control by Domain Owners of a particular domain owner. — <u>A</u> "Domain Owners are ontitiesOwner" is the Participant responsible for ensuring that privacy controls and PMRM services are managed in business processes and	

359	Example		
360	Utility Domai	in:	
361 362		nysical premises located at which includes the Utility's program information system, load uling system, billing system, and remote monitoring system	
363 364 365 366	to the softwa hosted	hysical location is part of a larger logical privacy domain, owned by the Utility and extends Customer Portal Communication system at the Customer's site, and the EV On-Board re application System installed in the EV by the Utility, together with cloud-based services I by	
367	Customer Do		
368 369 370	located	hysical extent of the customer's home and adjacent land as well as the EV, wherever d, together with the logical area covered by devices under the ownership and control of the ner (such as mobile devices).	
371	Example		
372	The E	V On-Board System belongs to the utility Privacy Domain Owner.	
373 374		V (with its ID Number) belongs to the Customer Domain Owner and the Vehicle acturer Domain Owners, but the EV ID may be accessed by the Utility.	
375 376	Task #8:	Identify roles <u>Roles</u> and responsibilities <u>Responsibilities</u> within a <sup>4</sup>	Formatted: Indent: Left: 0", Hanging: 0.98"
377 378	Objective	For any given use case, identify the roles and responsibilities assigned to specific actorsParticipants and Systems within a specific privacy domain	
379 380 381 382	Rationale	Any individual or positionParticipant may carry multiple roles and responsibilities and these need to be distinguishable, particularly as many functions involved in processing of PI are assigned to a person or other actor, according to functional roles, with explicit roles and authority to act, rather to a person or actor as such specific participant.	
383	Example		
384	Role:	EV Manufacturer Privacy Officer	
385 386 387 388	Responsibilit	ties: Ensure that all PI data flows from EV On-Board System conform both with contractual obligations towardsassociated with the Utility and vehicle owner as well as the Collection Limitation and Information Minimization FIP/P. in its privacy policies.	
389	Task #9:	Identify Touch Points	Formatted: Indent: Left: 0", Hanging: 0.98"
390 391	Objective	Identify the touch points at which the data flows intersect with Privacy Domains or Systems within Privacy Domains.	
392 393	Definition	Touch Points are the intersections of data flows with Privacy Domains or Systems within Privacy Domains.	
394 395	Rationale	The main purpose for identifying touch points in the use case is to clarify the data flows and ensure a complete picture of all Privacy Domains and Systems in which PI is used.	

Example			
the <u>The</u> Cust	nication Interfaces whereby actors send and receive data are touch points. For instance omer Communication Portal provides an interface viathrough which the Customer es a charge order to the Utility. This interface is a touch point.		
communicat	Instomer plugs into the charging station, the EV On-Board System also embeds ion functionality that acts as its touch point to send EV ID and EV Charge Requirements to ar Communication Portal. This functionality provides a further touch point.		
Task #10:	Identify Data Flows	-	Formatted: Indent: Left: 0", Hanging:
Objective	Identify the data flows carrying PI and privacy constraints among Domains in the Use Case.		
Constraint	Data flows may be multidirectional or unidirectional.		
Example			
information,	rging request event occurs, the Customer Communication Portal sends Customer EV identification, and Customer Communication Portal location information to the EV ormation System managed by the Utility.		
may be shar	tion uses metadata tags to indicate whether or not customer' identification and location data ed ed <del>(and then, only</del> with authorized third parties), and prohibitsto prohibit the sharing of data s customers' movement history, if derived from an aggregation of transactions.		
3.2 Identif	y PI in Use Case Privacy Domains and Systems	•	Formatted: Indent: Left: 0", Hanging:
Objective	Specify the PI collected, created, communicated, processed or stored within Privacy Domains or Systems in three categories.		
<u>Task #11:</u>	Identify Incoming PI	•	Formatted: Indent: Left: 0", Hanging: Numbered + Level: 1 + Numbering Style
Definition	Incoming PI is PI flowing into a Privacy Domain, or a system within a Privacy Domain.		3, + Start at: 1 + Alignment: Left + A at: 1.44" + Indent at: 1.69"
Constraint	Incoming PI may be defined at whatever level of granularity appropriate for the scope of analysis of the Use Case and the Privacy Policies established in Section 2.		
<u>Task #12:</u>	Identify Internally Generated PI	•	<b>Formatted:</b> Indent: Left: 0", Hanging: Numbered + Level: 1 + Numbering Style 3, + Start at: 1 + Alignment: Left + A
Definition	Internally Generated PI is PI created within the Privacy Domain or System itself.		at: 1.44" + Indent at: 1.69"
Constraint	Internally Generated PI may be defined at whatever level of granularity appropriate for the scope of analysis of the Use Case and the Privacy Policies established in Section 2.		
Example	Examples include device information, time-stamps, location information, and other system-generated data that may be linked to an identity.		
<u>Task #13:</u>	Identify Outgoing PI	-	<b>Formatted:</b> Indent: Left: 0", Hanging: Numbered + Level: 1 + Numbering Style 3, + Start at: 1 + Alignment: Left + A
Definition	Outgoing PI is PI flowing out of one system to another system within a Privacy Doman or to another Privacy Domain.		at: 1.44" + Indent at: 1.69"
Constraint	Outgoing PI may be defined at whatever level of granularity appropriate for the scope of analysis of the Use Case and the Privacy Policies established in Section 2.		

Internally Generate Current EV I by EV On-Be Outgoing PI: Current EV I 3.3 Specify Re Goal For to en or m Fair Definition Con achi Definition Priva	D and location information transmitted to equired Privacy Controls As nooming, Internally Generated and Outgo force the privacy policy associated with the ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reast evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to acy policies are satisfied in an operational	tion, and time/location information Utility Load Scheduler System Sociated with PI ing PI, specify the privacy controls he PI. Privacy controls may be privacy controls may be privacy controls are typically associated with that apply to the PI. Donable assurance regarding the and physical safeguards employ protect PI. They are the means I	ols required re-defined h specific	Formatted: Indent: Left: 0", Hanging
Internally Generate Current EV I by EV On-Be Outgoing PI: Current EV I 3.3 Specify Re Goal For to en or m Fair Definition Con achi Definition Priva	and Iocation information transmitted to I and Iocation information transmitted to I equired Privacy Controls As ncoming, Internally Generated and Outgo force the privacy policy associated with th ay be derived. In either case, privacy com Information Practices Principles (FIP/Ps) rol is a process designed to provide reaso evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to to policies are satisfied in an operational	tion, and time/location information Utility Load Scheduler System Sociated with PI ing PI, specify the privacy controls he PI. Privacy controls may be privacy controls may be privacy controls are typically associated with that apply to the PI. Donable assurance regarding the and physical safeguards employ protect PI. They are the means I	ols required re-defined h specific	Formatted: Indent: Left: 0", Hanging
Current EV I by EV On-Bo Outgoing PI: Current EV 3.3 Specify Re Goal For to en or m Fair Definition Con achi Definition Priva	D and location information transmitted to equired Privacy Controls As nooming, Internally Generated and Outgo force the privacy policy associated with the ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reast evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to acy policies are satisfied in an operational	Utility Load Scheduler System <b>sociated with PI</b> ing PI, specify the privacy controls the PI. Privacy controls may be privacy controls are typically associated with that apply to the PI. phable assurance regarding the and physical safeguards employ protect PI. They are the means I	ols required re-defined h specific	Formatted: Indent: Left: 0", Hanging
by EV On-Be Outgoing PI: Current EV 3.3 Specify Re Goal For to en or m Fair Definition Con achi Definition Priva	<u>D and location information transmitted to </u> equired Privacy Controls As ncoming, Internally Generated and Outgo force the privacy policy associated with th ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reaso evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to icy policies are satisfied in an operational	Utility Load Scheduler System <b>sociated with PI</b> ing PI, specify the privacy controls the PI. Privacy controls may be privacy controls are typically associated with that apply to the PI. phable assurance regarding the and physical safeguards employ protect PI. They are the means I	ols required re-defined h specific	Formatted: Indent: Left: 0", Hanging
Outgoing PI: Current EV I 3.3 Specify Re Goal For to en or m Fair Definition Con achi Definition Priva	<u>D</u> and location information transmitted to equired Privacy Controls As nooming, Internally Generated and Outgo force the privacy policy associated with th ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reaso evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to icy policies are satisfied in an operational	sociated with PI ing PI, specify the privacy control ne PI. Privacy controls may be put trols are typically associated with that apply to the PI. onable assurance regarding the and physical safeguards employ protect PI. They are the means I	re-defined h specific	Formatted: Indent: Left: 0", Hanging
Current EV	equired Privacy Controls As nooming, Internally Generated and Outgo force the privacy policy associated with th ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reaso evement of stated objectives. acy Controls are administrative, technical rganization or Privacy Domain in order to acy policies are satisfied in an operational	sociated with PI ing PI, specify the privacy control ne PI. Privacy controls may be put trols are typically associated with that apply to the PI. onable assurance regarding the and physical safeguards employ protect PI. They are the means I	re-defined h specific	Formatted: Indent: Left: 0", Hanging
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Goal For to en or m Fair Definition Con achi Definition Prive an o prive	ncoming, Internally Generated and Outgo force the privacy policy associated with the ay be derived. In either case, privacy cont Information Practices Principles (FIP/Ps) rol is a process designed to provide reaso evement of stated objectives. acy Controls are administrative, technical rganization <u>or Privacy Domain</u> in order to acy policies are satisfied in an operational	ing PI, specify the privacy contro ne PI. Privacy controls may be pi trols are typically associated with that apply to the PI. onable assurance regarding the and physical safeguards employ protect PI. They are the means I	re-defined h specific	Formatted. Indent. Lent. 0, Hanging
to er or m Fair Definition Con achi Definition Priva an o priva	force the privacy policy associated with the aybe derived. In either case, privacy content information Practices Principles (FIP/Ps) arol is a process designed to provide reasonated objectives. Acy Controls are administrative, technical reganization or Privacy Domain in order to be policies are satisfied in an operational for the privacy policies are satisfied in the priv	ne PI. Privacy controls may be putrols are typically associated with that apply to the PI. bonable assurance regarding the and physical safeguards employ protect PI. They are the means I	re-defined h specific	
achi Definition Priva an c priva	evement of stated objectives. acy Controls are administrative, technical rganization <u>or Privacy Domain</u> in order to cy policies are satisfied in an operational	and physical safeguards employ protect PI. They are the means I	ed within	
an c priva	rganization or Privacy Domain in order to by policies are satisfied in an operational	protect PI. They are the means I	ed within	
F <del>ask #12:</del> Task	#14: Specify Inherited Briv	ootang.	by which	
		vacy Controls		Formatted: Indent: Left: 0", Hanging
	cify the required Privacy Controls which a ems within Privacy Domains.	e inherited from Privacy Domain	is or	
Example:				
The utility inherits manufacturer's priv	a Privacy Control associated with the Elec acy policies.	tric Vehicle's ID (EVID) from the	vehicle	
	he consumer's Operational Privacy Contr ink with the customer communications po tion.			
privacy preference Utility's third party consent to the ass commutative asso	bly Jane's privacy preferences to the curre s and learns that Jane does not want her partners. Even though Rick's privacy setti potation being transmitted out of the Utility station. Thus if Rick were to charge his ca Id also not be shared with third parties.	association with Rick exported to ngs differ around his PI, Jane's r 's privacy domain is sufficient to	o the non - o prevent	
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468	Task #13: Task #15: Specify Internal Privacy Controls	 Formatted: Indent: Left: 0", Hanging: 0.98", Space Before: 24 pt
469	<b>Objective</b> Specify the Privacy Controls which are mandated by internal Privacy Domain policies.	
470	Example	
471	Use Limitation Internal Privacy Controls	
472 473	The Utility complies with California Code SB 1476 of 2010 (Public Utilities Code §§ 8380-8381 Use Limitation).	
474 475	It implements the 2011 California Public Utility Commission (CPUC) privacy rules, recognizing the CPUC's regulatory privacy jurisdiction over it and third parties with which it shares customer data.	
476 477 478	Further, it adopts NIST 800-53 Appendix J's "Control Family" on Use Limitation – e.g. it evaluates any proposed new instances of sharing PII with third parties to assess whether they are authorized and whether additional or new public notice is required.	
479	Task #14: Task #16: Specify Exported Privacy Controls	 Formatted: Indent: Left: 0", Hanging: 0.98"
480 481	<b>Objective</b> Specify the Privacy Controls which must be exported to other Privacy Domains or to Systems within Privacy Domains.	
482 483 484	<b>Example</b> The Utility exports Jane's privacy preferences associated with her PI to its third party partner, whose systems are capable of understanding and enforcing these preferences. One of her privacy control	
485	requirements is to not share her EVID with marketing aggregators or advertisers.	

# 4 Identify Functional Services SupportingNecessary to Support Privacy Controls

Privacy controls are usually stated in the form of a policy declaration or requirement and not in a way that
is immediately actionable or implementable. <u>Until now, we have been concerned with the real-world</u>,
human side of privacy but we need now to turn attention to the digital world and "system-level" concerns.
"Services" provide the bridge between those requirements and a privacy management implementation by
providing privacy constraints on system-level actions governing the flow of PI between touch points.

#### 493 **4.1 Services Needed to Implement the Controls**

A set of operational Services is the organizing structure which will be used to link the required Privacy
Controls specified in Section 4.3 to operational mechanisms necessary to implement those requirements.
Eight Privacy Services have been identified, based on the mandate to support an arbitrary set of privacy
policies, but at a *functional level*. The eight Services can be logically grouped into three categories:
Core Policy: Agreement, Usage

- 499 **Privacy Assurance**: Security, Validation, Certification, Enforcement
- 500 Presentation and Lifecycle: Interaction, Access

501 These groupings, illustrated below, are meant to clarify the "architectural" relationship of the Services in 502 an operational design. However, the functions provided by all Services are available for mutual interaction 503 without restriction.

504	Core Policy Services	-	Assurance vices	Presentation & Lifecycle Services		
	Agreement	Validation	Certification	Interaction		
505	Usage	Security	Enforcement	Access		
508 509 510 511 512 513 514 515 516 517 518	A system architect or technical manager should be able to integrate these privacy Services into a functional architecture, with specific mechanisms selected to implement these functions. In fact, a key purpose of the PMRM is to stimulate design and analysis of the specific functions - both manual and automated - that are needed to implement any set of privacy policies. In that sense, the PMRM is an analytic tool. The PMRM identifies various system capabilities that are not typically described in privacy practices and principles. For example, a policy management (or "usage and control") function is essential to manage the PI usage constraints established by the individual, a data subject information collectorprocessor or by regulation, but such a function is not explicitly named in privacy principles/practices. Likewise, interfaces (and agents) are not explicit in the privacy principles/practices, but are necessary to represent other essential operational capabilities.					
<ul> <li>519 compliant." Without them, enforcing privacy policies in a distributed, fully automated encoded and the privacy policies in a distributed, fully automated encoded error-prone manual processing, inadequate privacy governance and compliance control</li> <li>522 compliance reporting.</li> </ul>				will be burdened with inefficient and		
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#### 523 A "Service", as As used here,

- A "Service" is defined as a collection of related functions and mechanisms that operate for a specified 524 525 purpose-
- 526 An "Actor" is defined as a system-level, digital 'proxy' for either a (human) Participant or an (non-527 human) system-level process or other agent.

528 The eight privacy Services defined are Agreement, Usage, Security, Validation, Certification,

- Enforcement, Interaction, and Access. Specific operational behavior of these Services is governed by 529
- the privacy policy and constraints that are configured in a particular implementation and jurisdictional 530
- 531 context. These will be identified as part of the Use Case analysis. Practice with use cases has shown that the Services listed above can, together, operationally encompass any arbitrary set of privacy 532

requirements. 533

534 The functions of one Service may invoke another Service. In other words, functions under one Service may "call" those under another Service (for example, pass information to a new function for subsequent 535

- action). In line with principles of Service-Oriented Architecture (SOA)<sup>3</sup>, the Services can thus interact in
- 536 537 an arbitrary interconnected sequence to accomplish a privacy management task or set of privacy lifecycle
- 538 requirements. Use cases will illustrate such interactions and their sequencing as the PMRM is used to
- 539 solve a particular privacy problem. By examining and by solving multiple use cases, the PMRM can be
- 540 tested for applicability and robustness.
- 541 The table below provides a description of each Service's functionality and an informal definition of each 542 Service:

SERVICE	FUNCTIONALITY	PURPOSE
AGREEMENT	Define and document permissions and rules for the handling of PI based on applicable policies, individualdata subject preferences, and other relevant factors; provide relevant Actors with a mechanism to negotiate or establish new permissions and rules; express the agreements for use by other Services	Manage and negotiate permissions and rules
USAGE	Ensure that the use of PI complies with the terms of any applicable permission, policy, law or regulation, including PI subjected to information minimization, linking, integration, inference, transfer, derivation, aggregation, and anonymization over the lifecycle of the use case	Control PI use
VALIDATION	Evaluate and ensure the information quality of PI in terms of Accuracy, Completeness, Relevance, Timeliness and other relevant qualitative factors	Check PI
CERTIFICATION	Ensure that the credentials of any Actor, Domain, System , or system component are compatible with their assigned roles in processing PI; <u>and</u> verify <u>their</u> compliance and trustworthiness of that Actor, Domain, System or system component against defined policies and assigned roles.	Check credentials
ENFORCEMENT	Initiate response actions, policy execution, and recourse when audit controls and monitoring indicate that an Actor or System does not conform to defined policies or the terms of a permission (agreement)	Monitor and respond to audited exception conditions
SECURITY	Provide the procedural and technical mechanisms necessary to ensure the confidentiality, integrity, and availability of personal information; make possible the	Safeguard privacy information and operations

<sup>3</sup> See for example the [SOA-RM] and the [SOA-RAF]

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		trustworthy processing, communication, storage and disposition of privacy operations			
	INTERACTION	Provide generalized interfaces necessary for presentation, communication, and interaction of PI and relevant information associated with PI; encompasses functionality such as user interfaces, system-to-system information exchanges, and agents	Information presentation and communication		
	ACCESS	Enable data- <del>subject Actors<u>subjects</u>, as required and/or allowed by permission, policy, or regulation, to review their PI that is held within a Domain and propose changes and/or corrections to their PI</del>	View and propose changes to stored PI		
543	<b>A</b>				Formatted: Font: 10 pt, Not Bold, Font color: Auto, Not Highlight
544	4.2 Service	Details and Function Descriptions		•	Formatted: Indent: Left: 0", Hanging: 0.4"
545	4.2.1 Core P	olicy Services			
546	1. Agreen	nent Service		•	<b>Formatted:</b> Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
547 548		nd document permissions and rules for the handling of PI based on I preferences, and other relevant factors.	applicable policies,		
549	<ul> <li>Provide r</li> </ul>	elevant Actors with a mechanism to negotiate or establish new perr	missions and rules.		
550	Express	the agreements for use by other Services.			
551	Example				
552 553 554 555 556	<ul> <li>associated permissions for use. Customer negotiates with the bank (whether via an electronic interface, by telephone or in person) to modify the permissions. Customer provides the PI to the bank, with the modified and agreed to permissions. This agreement is signed by both parties, stored in an appropriate</li> </ul>				
557	2. Usage	Service		-	Formatted: Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
558 559	<ul> <li>Ensure the regulation</li> </ul>	nat the use of PI complies with the terms of any applicable permission,	on, policy, law or		
560 561		PI subjected to information minimization, linking, integration, inferent, aggregation, and anonymization,	nce, transfer,		
562	Over the	lifecycle of the use case.			
563	Example				
564 565 566	A third party has acquired individual specific PI, consistent with agreed permissions for use. Before using the PI, the third party has implemented functionality ensuring that the usage of the PI is consistent with the these permissions.				
567	4.2.2 Privacy	Assurance Services			
568		ion Service			<b>Formatted:</b> Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
569 570		and ensure the information quality of PI in terms of Accuracy, Com ce, Timeliness and other relevant qualitative factors.	pleteness,		

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71	Example	1
72	PI is received from an authorized third party for a particular purpose. The Specific characteristics of the	
	PI-is, such as date the information was originally provided, are checked to ensure it is sufficiently surrent forthe PI meets specified userequirements.	
75	4. Certification Service	<b>Formatted:</b> Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
76 77	• Ensure that the credentials of any Actor, Domain, System, or system component are compatible with their assigned roles in processing PI;	
78 79	• Verify that an Actor, Domain, System, or system component supports defined policies and conforms with assigned roles.	
30	Example	7
32 i 33 i	A patient enters an emergency room, presenting identifying credentials. Functionality has been implemented which enables hospital personnel to check those credentials against their prior- <u>a</u> patient database. Hospital personnel invoke information exchange. Additionally, the certification service's authentication processes ensures that the information exchange is authorized to receive the request.	
85	5. Enforcement Service	<b>Formatted:</b> Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
36 37 38	<ul> <li>Initiate response actions, policy execution, and recourse when audit controls and monitoring indicate that an Actor or System does not conform to defined laws, regulations, policies or the terms of a permission (agreement).</li> </ul>	
39	Example	
91 92	A magazine's subscription service provider forwards customer PI to a third party not authorized to receive the information. A routine audit of the service provider's system reveals this unauthorized disclosure practice, alerting the appropriate responsible official person (the organization's privacy officer), who takes appropriate action.	
94	6. Security Service	Formatted: Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
95 96	<ul> <li>Make possible the trustworthy processing, communication, storage and disposition of privacy operations;</li> </ul>	
97 98	<ul> <li>Provide the procedural and technical mechanisms necessary to ensure the confidentiality, integrity, and availability of personal information.</li> </ul>	
99	Example	7
	PI is transferred between authorized recipients, using transmission encryption, to ensure confidentiality.	
	Strong <u>standards-based,</u> identity, <u>authentication</u> and authorization management systems are implemented to conform to data <del>confidentialitysecurity</del> policies.	
<b>4</b> .	2.3 Presentation and Lifecycle Services	
)4	7. Interaction Service	Formatted: Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
)5 )6	<ul> <li>Provide generalized interfaces necessary for presentation, communication, and interaction of PI and relevant information associated with PI;</li> </ul>	
)7 )8	<ul> <li>Encompasses functionality such as user interfaces, system-to-system information exchanges, and agents.</li> </ul>	
)9	Example:	
11	Your home banking application uses a graphical user interface (GUI) to communicate with you, including presenting any relevant privacy <del>Noticesnotices, enabling access to PI disclosures, and providing customer with options to modify privacy preferences.</del>	
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613 614	The banking application utilizes email alerts to notify customers when policies have changed and uses postal mail to confirm customer-requested changes.		
615	8. Access Service		<b>Formatted:</b> Indent: Left: 0.25", Hanging: 0.25", Tab stops: Not at 0.3"
616 617	<ul> <li>Enable data-subjects, as required and/or allowed by permission, policy, or regulation, to review their PI held within a Domain and propose changes and/or corrections to it.</li> </ul>		
618	Example:	1	
619 620	A national credit bureau has implemented an online service enabling individuals customers to request their credit score details and to report discrepancies in their credit histories.		
621			

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022				
623	4.3 Identify	Services satisfying the privacy controls	-	Formatted: Indent: Left: 0", Hanging: 0.4"
624 625 626 627	the privacy contruse case analys	fined in Section 4.1 encompass detailed Functions and Mechanisms needed to transform rols of section 3.3 into an operational system design for the use case. Since the detailed is focused on the data flows – incoming, internally generated, outgoing – between ctors), the Service selections should be on the same granular basis.		
628	Task #15: Ta	ask #17: Identify the Services that conformnecessary to	-	Formatted: Indent: Left: 0", Hanging: 0.98"
629		thesupport operation of identified privacy controls.		
630	Perform this task	for each data flow exchange of PI between systems.		
631 632		nversion into Service operations can then be synthesized into consolidated sets of per System involved in the Use Case.		
633 634		on and refinement, the engaged Services can be further delineated by the appropriate lechanisms for the relevant privacy controls.		
635	Examples:		1	
636	Based upon			
637		Generated PI (Current EV location logged by EV On-Board system), and	•	Formatted: List Paragraph
638 639		PI (Current EV location transmitted to Utility Load Scheduler System), rational Services as follows:		Formatted: List Paragraph, Indent: Left: 0.13", Hanging: 0.25"
640	"Log EV loca	tion":		
641 642	Validation	EV On-Board System checks that <u>the reporting of a particular charging</u> location is not previously rejected has been opted-in by EV owner		
643 644	Enforcement	If location is previously rejected has not been authorized by EV Owner for reporting and the location data has been transmitted, then notify the Owner and/or the Utility		
645	Interaction	Communicate EV Location to EV On-Board System		
646 647	Usage	EV On-Board System records EV Location in secure storage, together with: EV location data is linked to agreements		
648	"Transmit EV	Location to Utility Load Scheduler System (ULSS)":		
649	Interaction	Communication established between EV Location and ULSS		
650	Security	Authenticate the ULSS site; secure the transmission		
651	Certification	ULSS checks the credentials of the EV On-Board System		
652	Validation	Validate the EV Location against accepted locations		
653	Usage	ULSS records the EV Location, together with agreements		

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Т

#### 4.45 Define the Technical Functionality and Business **Processes Supporting the Selected Services** 655

- 656 Each Service is composed of a set of operational Functions, reflected in defined business processes and technical solutions. 657
- 658 The Functions step is critical because it necessitates either designating the particular business process 659 or technical mechanism being implemented to support the Services required in the use case or the
- absence of such a business process or technical mechanism. 660

#### 4.4.15.1 Identify Functions Satisfying the Selected Services 661

Up to this point in the PMRM methodology, the primary focus of the use case analysis has been on the 662 663 "what" - PI, policies, control requirements, the Services needed to manage privacy. Here the PMRM requires a statement of the "how" - what business processes and technical mechanisms are identified as 664 665 providing expected functionality.

666 667	Task #16:       Task #18:       Identify the Functions that satisfy the selected         Services
668	Examples
669	"Log EV Location" (uses services Validation, Enforcement, Interaction, and Usage Services):
670	Function: Encrypt the EV Location and Agreements and store in on-board solid-state drive
671 672	"Transmit EV Location to Utility Load Scheduler System (ULSS)" (uses Interaction, Security, Certification, Validation, and Usage Services):
673 674	Function: Establish a TLS/SSL communication between EV Location and ULSS, which includes mechanisms for authentication of the source/destination

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# 4.56 Perform Risk and/or Compliance Assessment Task #17: Task #19: Conduct Risk Assessment Objective Once the requirements in the Use Case have been converted into operational Services, an overall risk assessment should be performed from that operational perspective

010		an everal new dececement energies be performed nem that operational perepetative
679 680 681	Constraint	Additional controls may be necessary to mitigate risks within Services. The level of granularity is determined by the Use Case scope. Provide operational risk assessments for the selected Services within the use case.
682	Examples	
683	"Log EV loca	ation":
684 685	Validation	EV On-Board System checks that location is not previously rejected by EV owner <b>Risk</b> : On-board System has been corrupted
686 687	Enforcement	If location is previously rejected, then notify the Owner and/or the Utility Risk: On-board System not current
688 689	Interaction	Communicate EV Location to EV On-Board System <b>Risk</b> : Communication link not available
690 691	Usage	EV On-Board System records EV Location in secure storage, together with agreements <b>Risk</b> : Security controls for On-Board System are compromised
692	"Transmit E	/ Location to Utility Load Scheduler System (ULSS)":
693 694	Interaction	Communication established between EV Location and ULSS <b>Risk</b> : Communication link down
695 696	Security	Authenticate the ULSS site; secure the transmission Risk: ULSS site credentials are not current
697 698	Certification	ULSS checks the credentials of the EV On-Board System <b>Risk</b> : EV On-Board System credentials do not check
699 700	Validation	Validate the EV Location against accepted locations <b>Risk</b> : Accepted locations are back-level
701 702	Usage	ULSS records the EV Location, together with agreements <b>Risk</b> : Security controls for the ULSS are compromised
703		

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# 705 4.67 Initiate Iterative Process 706 Goal A 'first pass' through the Tasks above couldcan be used to identify the scope of the Use Case and the underlying privacy policies and constraints. Additional iterative passes would serve to refine the Use Case and to add detail. Later passes could serve to resolve "TBD" sections that are important, but were not previously well-understood.-developed.

Note that a 'single pass' analysis might mislead the PMRM user into thinking the Use Case was fully
 developed and understood. Iterative passes through the analysis will almost certainly reveal further
 details. Keep in mind that the ultimate objective is to develop insight into the Use Case sufficient to
 provide a reference model for an operational, Service-based, solution.

714 Task #18: Task #20: Iterate the analysis and refine.

715 Iterate the analysis in the previous sections, seeking further refinement and detail.

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718

# 58 PMRM Glossary, plus Operational Definitions for Fair Information Practices/Principles ("FIPPs") and Glossary

As explained in the introduction, every specialized domain is likely to create and use a domain-specific vocabulary of concepts and terms that should be used and understood in the specific context of that domain. PMRM is no different and this section contains such terms.

722 In addition, a number of "operational definitions" are intended to be used in the PMRM to support

723 development of the "Detailed Privacy Use Case Analysis" described in Section 4. Their use is completely 724 optional, but may be helpful in organizing privacy policies and controls where there are inconsistencies in 725 definitions across policy boundaries or where existing definitions do not adequately express the

726 operational characteristics associated with Fair Information Practices/Principles.

#### 727 5.18.1 Operational FIPPs

- 728 The following 14 Fair Information Practices/Principles are composite definitions derived from a 729 comprehensive list of international legislative instruments. These operational FIPPs can serve as a
- 730 sample set, as needed.

#### 731 Accountability

Functionality enabling reporting by the business process and technical systems which implement
 privacy policies, to the <u>individualdata subject</u> or <u>entityParticipant</u> accountable for ensuring compliance
 with those policies, with optional linkages to redress and sanctions.

#### 735 Notice

Functionality providing Information, in the context of a specified use, regarding an entity's privacy
policies and practices exercised within a Privacy Domain including: definition of the Personal
Information collected; its use (purpose specification); its disclosure to parties within or external to the
entitydomain; practices associated with the maintenance and protection of the information; options
available to the individualdata subject regarding the collector sprocessor's privacy practices; retention
and deletion; changes made to policies or practices; and other information provided to the
individualdata subject at designated times and under designated circumstances.

#### 743 Consent

- Functionality, including support for Sensitive Information, Informed Consent, Change of Use Consent,
   and Consequences of Consent Denial, enabling individualsdata subjects to agree to-allow the
- and Consequences of Consent Denial, enabling individualedata subjects to agree to allow the
   collection and/or specific uses of some or all of their Personal Information either through an
- affirmative process (opt-in) or implied (not choosing to opt-out when this option is provided).

#### 748 Collection Limitation and Information Minimization

Functionality, exercised by the information collector or information user to limit processor, that limits
 the information collected, processed, communicated and stored to the minimum necessary to achieve
 a stated purpose and, when required, demonstrably collected by fair and lawful means.

#### 752 Use Limitation

Functionality, exercised by the information collector or information user to ensure processor, that
 ensures that Personal Information will not be used for purposes other than those specified and
 accepted by the individualdata subject or provided by law, and not maintained longer than necessary
 for the stated purposes.

#### 757 Disclosure

758 759

760

Functionality enablingthat enables the release, transfer, provision of access to, use for new purposes, or divulgingrelease in any other manner, of Personal Information held by an entitymanaged within a Privacy Domain in accordance with notice and consent permissions and/or applicable laws and

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761 762	functionality making known the information collectorsprocessor's policies to external parties receiving the information.					
763	Access and Correction					
764 765 766 767	Functionality <del>allowing individuals having adequate proof of identitythat allows an adequately identified data subject to discover from an entity, or discover and/or, correct or delete, their Personal Information<del>, at specified costs and managed</del> within specified time constraints; and<u>a Privacy Domain;</u> functionality providing notice of denial of access; and options for challenging denial when specified.</del>					
768	Security/Safeguards					
769 770 771	Functionality that ensures the confidentiality, availability and integrity of Personal Information collected, used, communicated, maintained, and stored; and that ensures specified Personal Information will be de-identified and/or destroyed as required.					
772	Information Quality					
773 774	Functionality that ensures that information collected and used is adequate for purpose, relevant for purpose, accurate at time of use, and, where specified, kept up to date, corrected or destroyed.					
775	Enforcement					
776 777 778 779	Functionality ensuring that ensures compliance with privacy policies, agreements and legal requirements and to give individuals data subjects a means of filing complaints of compliance violations and having them addressed, including recourse for violations of law, agreements and policies.					
780	Openness					
781 782 783 784	Functionality making availability, available to individuals the data subjects, that allows access to an information collector's or information user'sprocessors policies and practices relating to their <u>the</u> management of their Personal Information and for establishing that establishes the existence of, nature, and purpose of use of Personal Information held about the individuals data subject.					
785	Anonymity					
786 787 788	Functionality <del>which renders personal information anonymous so t</del> hat <del>an individual is no longer identifiableprevents data being collected or used in a manner that can identify a specific natural person.</del>					
789	Information Flow					
790 791	Functionality enabling that enables the communication of personal information across geo-political jurisdictions by private or public entities involved in governmental, economic, social or other activities.					
792	Sensitivity					
793 794	Functionality that provides special handling, processing, security treatment or other treatment of specified information, as defined by law, regulation or policy.					
795	5.2 <u>8.2</u> Glossary	Formatted: Indent: Left: 0", Hanging: 0.4"				
796	Actor					
797 798 799	A <del>data subject or system-level, digital 'proxy' for either a (human) Participant (or their delegate)</del> interacting with a system or a (non-human) in-system process or other agent-or (sub)system interacting with PI within Privacy Domain or System.					
800	Audit Controls					
801 802	Processes designed to provide reasonable assurance regarding the effectiveness and efficiency of operations and compliance with applicable policies, laws, and regulations.	<b>Formatted:</b> Normal, Indent: Left: 0.25", No widow/orphan control, Don't adjust space				
803	Boundary Object	between Latin and Asian text, Don't adjust space between Asian text and numbers				
804 805	A sociological construct that supports productive interaction and collaboration among multiple communities <u>.</u>					
806	Control					
807	A process designed to provide reasonable assurance regarding the achievement of stated objectives.					
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808	Domain Owner			
809 810	An entity <u>A Participant</u> having responsibility for ensuring that privacy controls and privacy constraints are implemented and managed in business processes and technical systems in accordance with			
811 812	policy and requirements. Incoming PI			
813	-			
814	PI flowing into a Privacy Domain, or a system within a Privacy Domain.			
815	Internally Generated PI PI created within the Privacy Domain or System itself.			
816	Monitor			
817	To observe the operation of processes and to indicate when exception conditions occur.			
818	Outgoing Pl			
819	PI flowing out of one system to another system within a Privacy Doman or to another Privacy Domain.			
820	Participant			
821 822	A Stakeholder creating, managing, interacting with, or otherwise subject to, PI managed by a System within a Privacy Domain.			
823	PI			
824 825	Personal Information – any data which describes some attribute of, or that is uniquely associated with, an individuala natural person.			
826	PII			
827 828	Personally identifiable information – any (set of) data that can be used to distinguishuniquely identify a natural person.			
829	Policy			
830 831 832	Laws, regulations, contractual terms and conditions, or trace an individual's identity.operational rules or guidance associated with the collection, use, transmission, storage or destruction of personal information or personally identifiable information			
833	Privacy Architecture			
834 835	A collection of proposed policies and practices appropriate for a given domain resulting from use of the PMRM			
836	Privacy Constraint			
837	An operational mechanism that controls the extent to which PII may flow between touch points.			
838	Privacy Control			
839 840	An administrative, technical or physical safeguard employed within an organization or Privacy Domain in order to protect PII.			
841	Privacy Domain			
842	A physical or logical area within the use case that is subject to the control byof a Domain Owner(s)			
843	Privacy Management			
844	The collection of policies, processes and methods used to protect and manage PI.			
845	Privacy Management Analysis			
846 847	Documentation resulting from use of the PMRM and that serves multiple Stakeholders, including privacy officers and managers, general compliance managers, and system developers			
848	Privacy Management Reference Model and Methodology (PMRM)			
849 850 851	A model and methodology for understanding and analyzing privacy policies and their management requirements in defined use cases; and for selecting the technical services which must be implemented to support privacy controls.			
852	(PMRM) Service			
853	A collection of related functions and mechanisms that operate for a specified purpose.			
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#### 854 System

855	A collection of components organized to accomplish a specific function or set of functions having a
856	relationship to operational privacy management.

- 857 Touch Point
- 858 The intersection of data flows with Privacy Domains or Systems within Privacy Domains.

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#### Appendix A. Acknowledgments 859

860 The following individuals have participated in the creation of this specification and are gratefully

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#### Participants: 862

- Peter F Brown, Individual Member 863
- 864 Gershon Janssen, Individual Member
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- 869 Michael Willett, Individual Member 870

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# 871 Appendix B. Revision History

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Revision	Date	Editor	Changes Made
WD01	<del>2012-01-17</del>	Peter F Brown	Transposition of 5 Jan 2012 draft v09 into official template and re-structuring of document
₩ <del>D0</del> 1 <u>WD05</u>	2012- <del>01-</del> <del>19<u>10-17</u></del>	John Sabo	Completion of Objectives section, other minor oditsIncorporate agreed dispositions to issues raised during First Public Review
₩ <del>D01</del> <u>WD05</u>	2012- <del>01-</del> <del>20<u>10-19</u></del>	Peter F Brown	Completion of document structure and other oditsMinor edits, terminology alignment and clean-up of formatting
WD01	<del>2012-02-01</del>	Michael Willett	Edits throughout
WD01	<del>2012-02-07</del>	Michael Willett	Accept/Reject edits and create clean copy
WD02	<del>2012-02-09</del>	Peter F Brown	Capture initial updates from discussions and TC meeting
WD02	<del>2012-02-15</del>	<del>Dawn Jutla</del>	Insert running Examples
WD02	<del>2012-02-16</del>	Michael Willett	Extensive edits; cleanup
WD02	<del>2012-02-21</del>	Peter F Brown	Formatting edits, plus some clear up of text
WD02	<del>2012-02-23</del>	Michael Willett	Review/accept Peter's edits
WD02	<del>2012-02-25</del>	John Sabo	Additional edits
WD03	<del>2012-02-29</del>	Peter F Brown	New clean edit following editorial meeting
WD03	<del>2012-03-01</del>	John Sabo	Additional edits
WD03	<del>2012-03-02</del>	Peter F Brown	Incorporation of comments from editors
WD03	<del>2012-03-03</del>	Michael Willett	Reviewed Peter's edits, plus a few new edits
WD03	<del>2012-03-06</del>	Peter F Brown	Incorporation of final comments from editors
<del>WD04<u>WD05</u></del>	2012- <del>03-</del> <del>16<u>10-31</u></del>	Peter F Brown	This draftdocument

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