

Table I. Description of Synchrony Components

Synchrony Components		
Governance Components	Description	What It Does
Synchrony Composer	A centralized composition and configuration environment for Synchrony components.	<p>Sets parameters.</p> <p>Manages versions.</p> <p>Manages deployment of managed objects such as file flows, integration sequences, business processes, dashboards, etc.</p> <p>Provides business and/or IT staff with the capability to collaborate on the design and share a design repository.</p> <p>Provides highly productive graphical user interfaces to increase productivity in composition and configuration.</p>
Synchrony Sentinel	A comprehensive business activity monitoring (BAM) environment, used to provide end-to-end visibility over all data movements and process activities operated by Synchrony components and beyond.	<p>Enables Dynamic Specialization. Provides real-time visibility and business intelligence over trading activities, enabling on-time responsiveness to business events, and dynamic reaction where appropriate.</p> <p>Provides agents that capture technical and business events in the Information System.</p> <p>Stores captured events in Operational Data Stores (ODSs) for persistence purposes. Its correlation engine processes capture events and build new events for monitoring or dashboard purposes.</p> <p>Parses documents for content analysis.</p> <p>Provides various user applications such as:</p> <ul style="list-style-type: none"> - Monitoring applications that query event databases - Dashboard applications that display business Key Performance Indicators (KPI) to business managers - Alerts applications that notify IT or business staff whenever an alarm is triggered.
Synchrony PassPort	A public key infrastructure (PKI) service that delivers certificates to software components taking part in the communication, enabling them to ensure authentication and confidentiality of exchanged data.	<p>Enables Dynamic Specialization. Manages all partner information, such as identities, exchanged documents, protocols used, etc. Supports many security standards, including:</p> <ul style="list-style-type: none"> • SSL/TLS, SSH • FTP-S, HTTP-S, EDIINT AS1, AS2, AS3 • X.509 certificates and LDAP • Encryption algorithms: asymmetric and symmetric keys (RSA, AES, DES, 3xDES), hashing functions (SHA-1, MD5), S/MIME, and hardware security modules (HSM) <p>Allows trading partners and their exchange protocols to be dynamically configured in a B2B gateway, according to evolving business collaboration needs. A B2B Integration Gateway solution can then be dynamically specialized to execute protocols and formats agreed to among trading partners.</p>
Synchrony Vantage	A web application framework that provides highly customizable, web user interface application pieces to access services provided by the Synchrony platform.	<p>Enables Dynamic Specialization. Provides samples of the following web user interfaces to some platform components:</p> <ul style="list-style-type: none"> • A self-registration capability for external trading partners • A web assistant to fill in an EDI form • A to-do list portlet for human actors to access and perform their assigned tasks for executing a business process • The viewing of a business dashboard through the web • A service management console to manage the definitions of services into Synchrony Registry, etc.

Synchrony Components		
Governance Components	Description	What It Does
Synchrony Registry	A UDDI-compliant, service definition directory.	Stores WSDL service definitions according to a defined taxonomy. Allows a client software component to query the registry in order to dynamically invoke a service at run-time, according to a defined, dynamic policy.
Engine Components	Description	What It Does
Synchrony Automator	Helps IT staff ability to automate IT operations across platforms, systems and applications.	Includes event- and time-driven processing, batch process management, IT alert management.
Synchrony Process Manager	Includes: <ul style="list-style-type: none"> • Process modeling (graphical drawing of the process diagram and setting of technical parameters) to make the process model executable • A run-time engine that executes the process model • Monitoring of running process instances. 	Provides business and IT staff with the capability to manage flow control processes such as the processes orchestrating the exchange of messages in a B2B communication, or end-to-end value and supply chain business processes orchestrating activities across the enterprise applications and organizations. <ul style="list-style-type: none"> • For process modeling and design, Synchrony ProcessManager supports Business Process Modeling Notation (BPMN), an Object management Group (OMG) standard.
Communications Components	Description	What It Does
Synchrony Gateway Solutions (Synchrony Gateway and Synchrony Gateway: Interchange)	These secure communication gateways are located between the enterprise corporate network and external networks for B2B and A2A communications.	Manages all kinds of B2B standards, communication formats and protocols: <ul style="list-style-type: none"> • FTP, FTPS, SSH-FTP • HTTP, HTTPS • SMTP • Web services (SOAP, WSDL) • EDIINT: ASI, AS2, AS3 • EDIFACT, X.12 • ebXML • RosettaNet • SWIFTNet • Odette, OFTP • PeSIT, ETEBAC 3, ETEBAC 5
Synchrony EndPoint	Allows external partners to securely communicate through the web.	Provides partners with the capability to self-register, self-provision, and once the collaboration schema is properly set up, to trigger electronic data exchange.
Synchrony Transfer	The core component of the Synchrony MFT solution, which is used to communicate with files between two internal systems.	Integrates applications through files. Provides low Total Cost of Ownership (TCO) with: <ul style="list-style-type: none"> • Full independence of the connected platforms, thanks to logical naming and data flow type definition. • Advanced application integration automation capabilities (event-oriented, allowing for just-in-time processing). • Reliability, guarantee of data delivery, due to end-to-end acknowledgment (even when the file flow crosses gateways), including negative acknowledgment. • Centralized configuration with Synchrony Composer. • Centralized end-to-end monitoring with Synchrony Sentinel.

Synchrony Components

Synchrony Messaging	Reliable, message-oriented middleware	Core component of the Synchrony Advanced Service backbone solution. Integrates applications through messages. Also a JMS provider.
Synchrony Web Services	A framework for IT staff to build Web Service clients and servers.	<p>Core component of the Synchrony Advanced Service backbone solution. On the client side, helps generate code needed to invoke a web service (query the registry, get the WSDL definition, get the service instance URL, and call the service with the appropriate message data).</p> <p>On the server side, helps encapsulate existing functions so they can be managed as a service, registered into the registry, and invoked via a registered URL.</p>
Integration Components	Description	What It Does
Synchrony Integrator	<p>Works with Synchrony Gateway as a key component of the Synchrony B2B Integration Gateway solution. Includes the following sub-components:</p> <ul style="list-style-type: none"> • <i>DataMapper advanced toolkit</i>: performs any mapping, and includes a library of useful mappings. • <i>MetaData Browser</i>: provides flexibility to build data structures out of existing data sources, and to configure the DataMapper with Application Data Formats (ADF). • <i>Message Flow Component (MFC)</i> allows for sophisticated data manipulation, beyond what is done by the DataMapper. MFC provides two methods: the Message Builder Component (MBC) with its data manipulation language, and the Java based Java Message Component (JMC). • <i>Application Connector development Platform (ACP)</i>: an advanced toolkit that builds new 	<p>An integration broker that:</p> <ul style="list-style-type: none"> • Validates, enriches, transforms and routes data to integrate applications or B2B flows with the existing information system. • Enables any-to-any transformation, regardless of the data support (message, file, etc.), format (EDIFACT, X.12, etc.) or protocol (FTP, HTTP, SMTP, etc.) • Provides IT staff with the ability to automate IT operation across platforms, systems and applications. • Includes event and time driven processing, batch process management, and IT alert management.

Synchrony Components

	application connectors. Synchrony Integrator includes standard application connectors for SAP, Oracle, Movex, etc.	
Accounting Integrator	Works as the core component of the Synchrony Accounting solution. Resides between enterprise operational systems, enterprise accounting general ledger and financial control applications.	Provides a comprehensive integration solution dedicated to accounting-related activities. Translates all business event output from operational systems to appropriate feeds for general ledger accounts and control systems, according to predefined accounting rules developed in the built-in accounting rules engine.