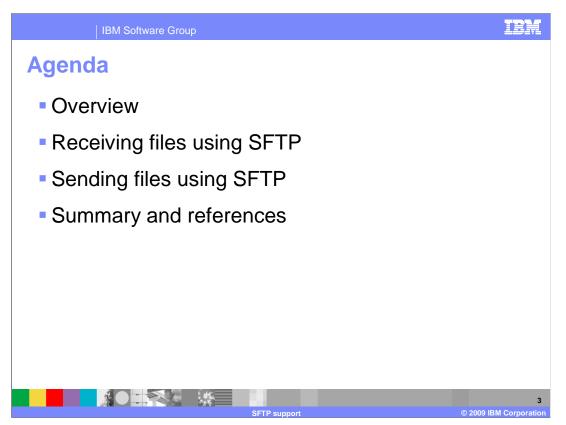


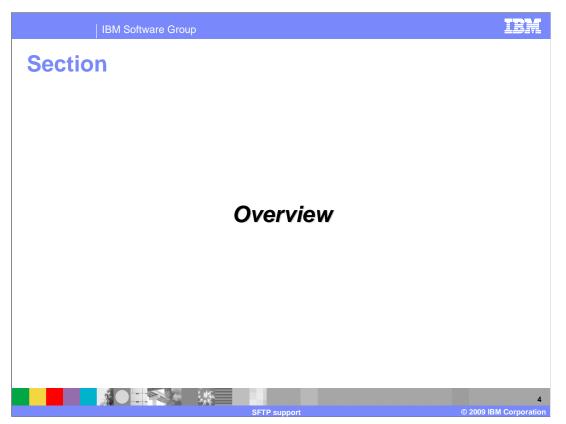
WebSphere<sup>®</sup> Partner Gateway 6.2 provides SFTP functionality for receiving and sending documents. This presentation is about SFTP support in WebSphere Partner Gateway 6.2.



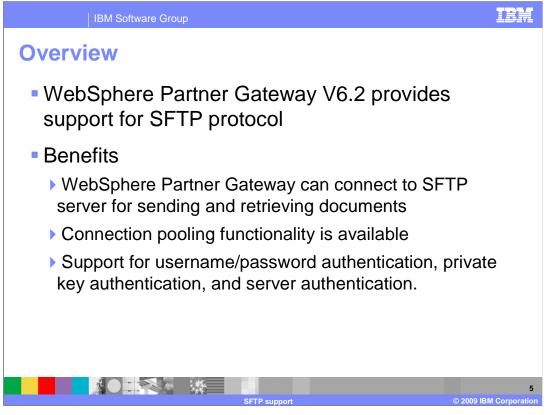
The goal of this presentation is to provide the details of using SFTP in WebSphere Partner Gateway V6.2.



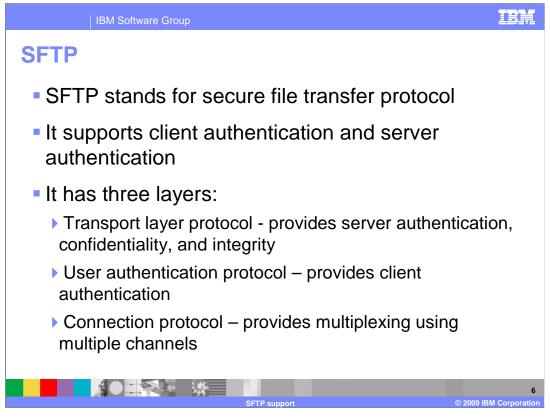
This presentation will cover the overall SFTP functionality provided in WebSphere Partner Gateway. It also includes the security aspects. It will then cover the details of configuration steps that must be carried out for receiving and sending files using SFTP. It will end with a summary of topics covered and references.



This section will provide a overview of SFTP support in WebSphere Partner Gateway.



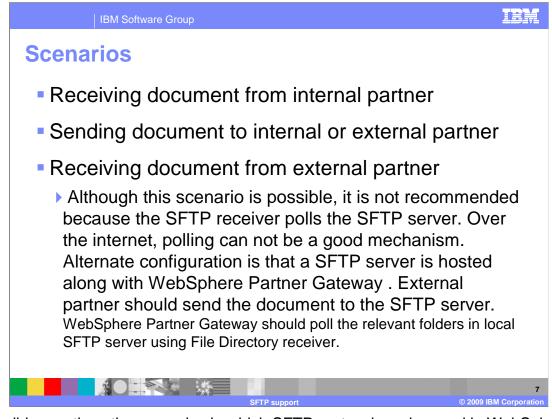
SFTP stands for Secure File Transfer Protocol. It is different from FTP (File Transfer Protocol). It provides the functionality of message integrity, confidentiality, and authentication. It also provides multiplexing of documents using different channels. In WebSphere Partner Gateway, there is an additional benefit of connection pooling, as the SFTP functionality is provided using J2C resource adapter.



Both client and server authentication can be used. Client authentication can be based on username and password, or private key and passphrase. SFTP protocol consists of three layers - transport layer protocol, user authentication protocol, and connection protocol. Transport layer protocol provides server authenticates the server to verify that it is connecting to the correct server. The documents exchanged between client and server should be confidential and should be protected from any eavesdropping. This is achieved using encryption. Message integrity means that the message or document reaches the destination without modification, that is, the document that is sent and received are the same and is not tampered. This is achieved using message digests.

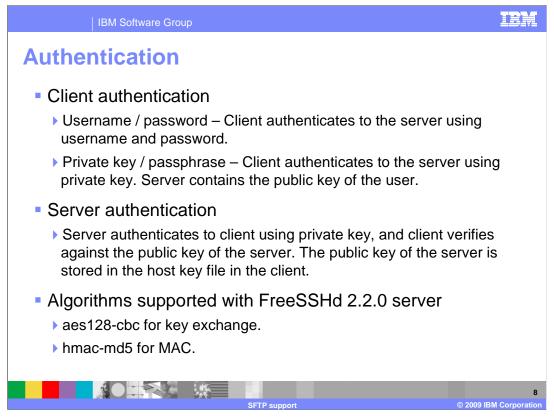
User authentication protocol provides client authentication.

Connection protocol provides the multiplexing of documents using different channels.

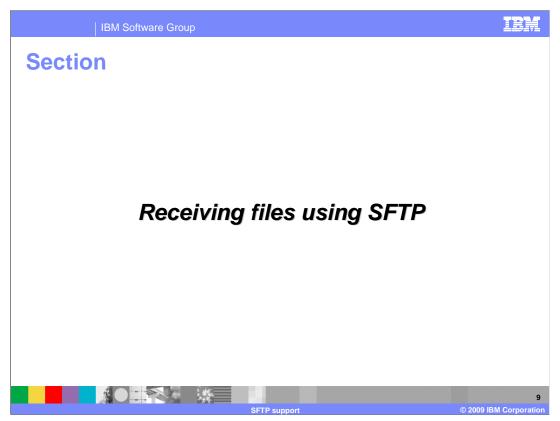


This slide mentions the scenarios in which SFTP protocol can be used in WebSphere Partner Gateway. An internal partner is a trading partner that either hosts the hub, or is a central trading partner in the trading community, and does business with other trading partners in the trading community. Hence, an internal trading partner can be within the enterprise hosting the hub.

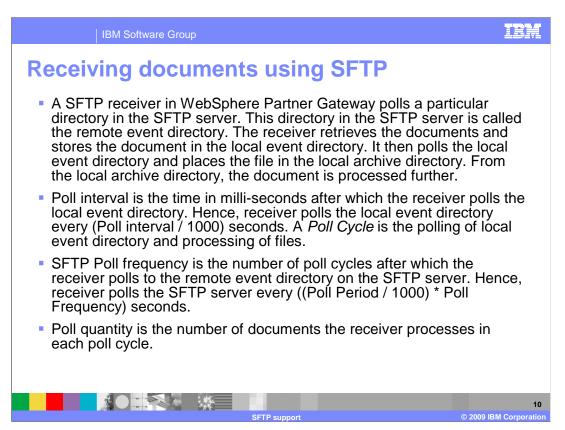
An external trading partner is a trading partner doing business with an internal trading partner.



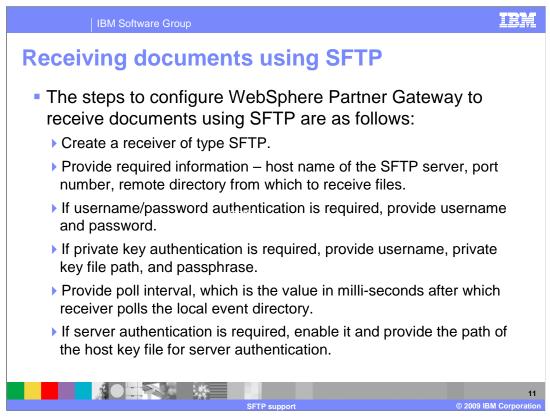
If server authentication is disabled, the client will trust any server and will connect to it if other connection parameters are correct. It is recommended to always enable server authentication.



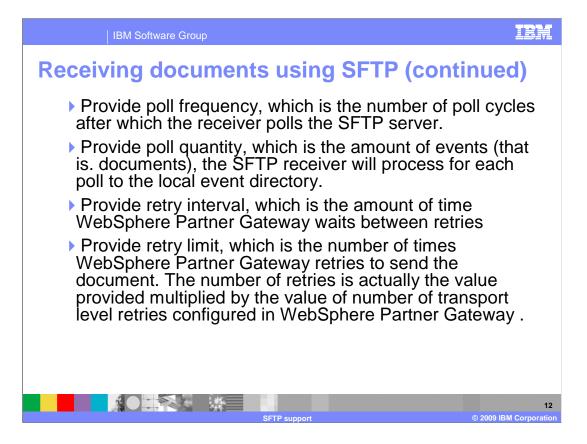
This section will provide details of configuration for receiving files using SFTP.



This slide explains how SFTP adapter works and other concepts like poll interval, poll frequency, poll cycle, and poll quantity.

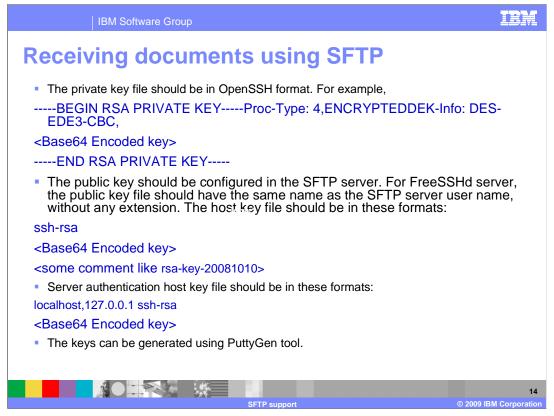


This slide explains the steps to configure an SFTP receiver.

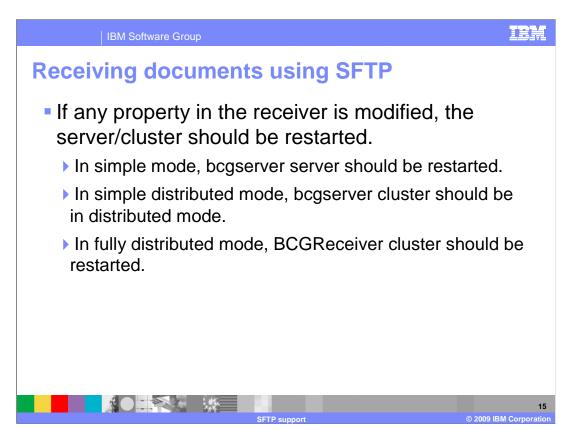


IBM Software Group	IBM
Receiving documents using SFTP	
Receiver Name     stp:receiver.1       Status     © Enabled       Description     ©	
Transport SFTP *	
Receiver Configuration Operation Mode: Production V * New Edit	
SFTP Host IP / Host Name: panurag in ibm.com * Port Number: [22] *	
Remote Event Directory:       /documents       +         Authentication Type:       O User Name / Password       O Private Key	
User Id: anurag * Private Key File: [c:\anurag-privkey *	
Private Key File: [- Minlappinkey] Pass Phrase: *** SFTP Poll Interval: [2000 *	
SF IP Poil Interval: (2000)         +           Poil Frequency:         5           Poil Quantity:         50	
Retry Linterval: 10 * Retry Linit: 3 *	
EIS Encoding: Enable Server Verification: O Disabled Host Key File: c:\stp-sener-host-key-file	
Handlers	
Configuration Point Handlers: Select One	
SFTP support	13 © 2009 IBM Corporation

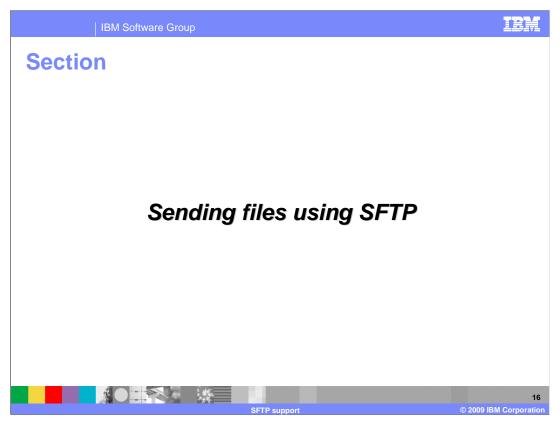
This slide shows a screen capture of an SFTP receiver in edit mode.



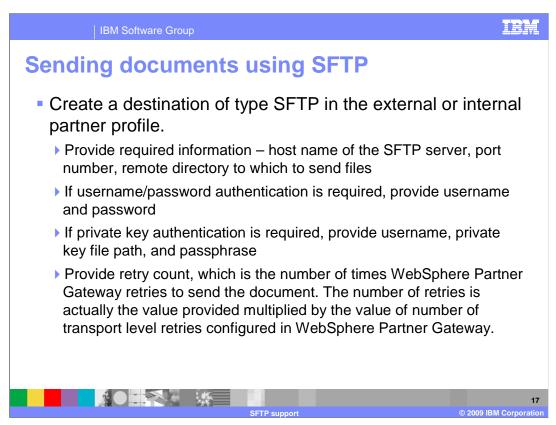
This slide describes the details of the formats supported for private key, public key, and host key file. The OpenSSH format is supported by the PuttyGen tool.



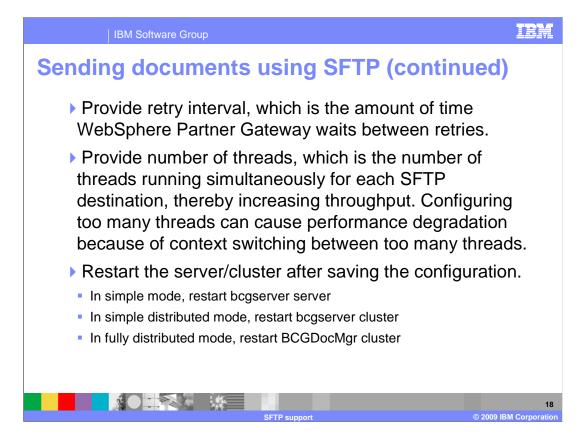
This slide mentions an important point regarding editing of properties of SFTP receiver.



This section will provide details of configuration for sending files using SFTP.

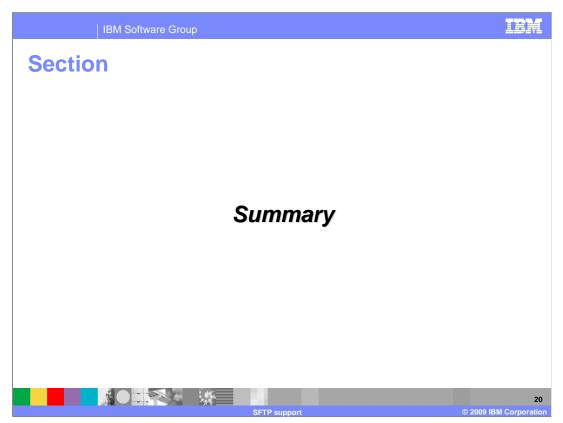


This slide explains the configuration required for configuring a destination for SFTP to send documents using SFTP.

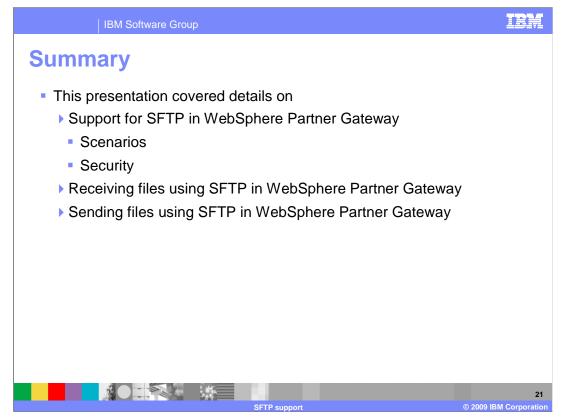


IBM Software	Group	IBM
Sending files	using SFTP	
	Destination Name stp-destination-1 * Status  Enabled  Disabled Online/Offline Description	
	Transport SFTP  Destination Configuration SFTP Host IP / Host Name: panurag in.ibm.com *	
	Port Number: 22 * Output Directory: //n *	
	Authentication Type:  User Name / Password  Private Key User Name: Password: *	
	Retry Count     3     *       Retry Interval     300     *       Number of Threads     3     *	
	EIS Encoding:	
	Configuration Point Handlers: Select One	
	Save Cancel	19 © 2009 IBM Corporation

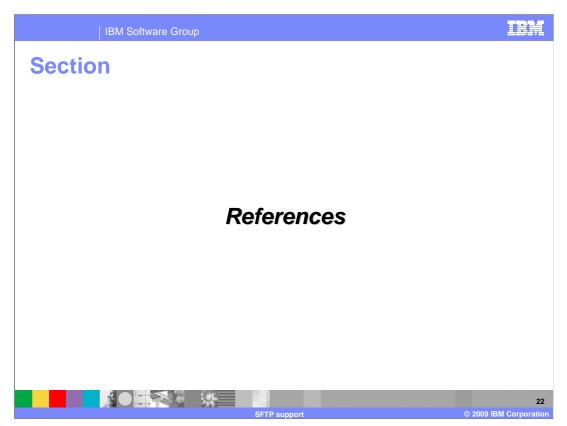
This slide shows a screen capture of an SFTP destination in edit mode.



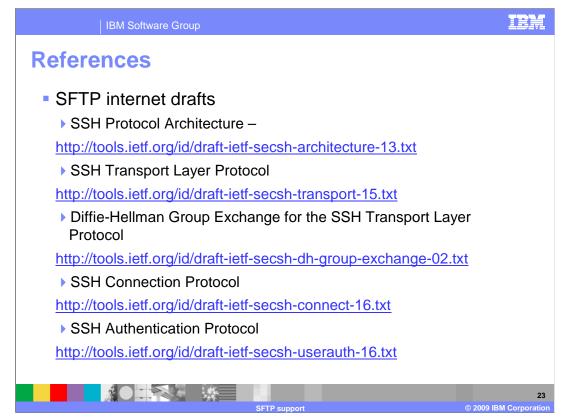
This section will provide a brief summary of this presentation.



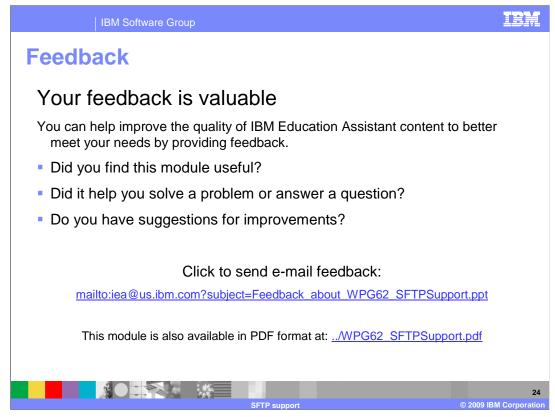
This presentation covered the SFTP support in WebSphere Partner Gateway V6.2. Various scenarios in which SFTP can be used, security functionality provided and details of configuration for receiving and sending documents using WebSphere Partner Gateway were discussed.



This section will provide relevant references.



The slide provides the links to the RFCs relevant to SFTP support in WebSphere Partner Gateway 6.2.



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