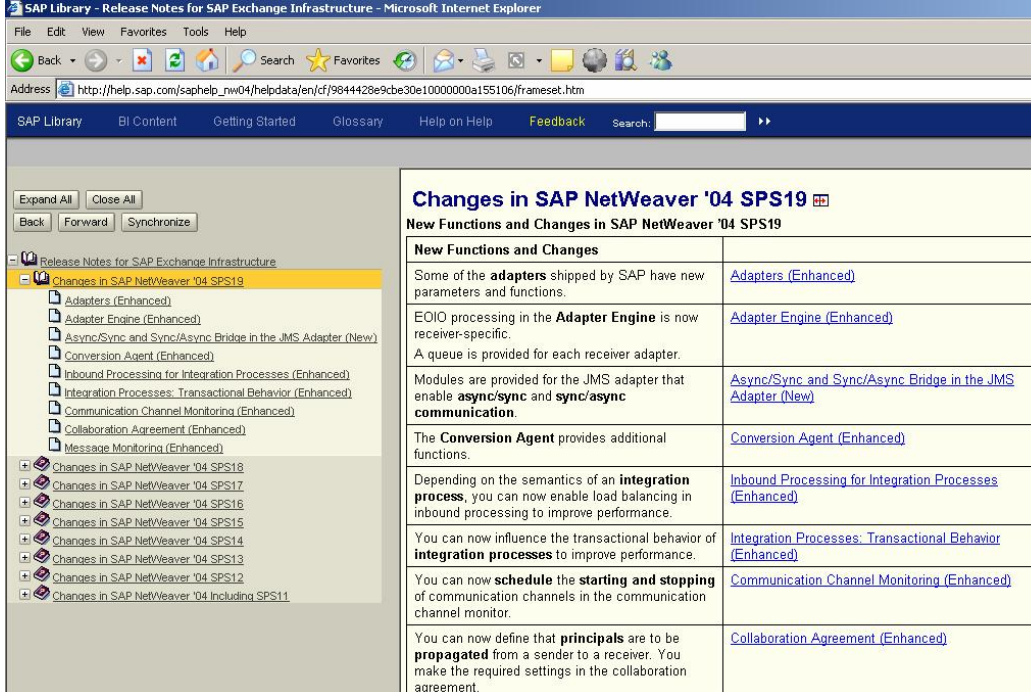


Process Integration with SAP NetWeaver – New Features and Functions

SAP NetWeaver Product Management, SAP AG
April 2007

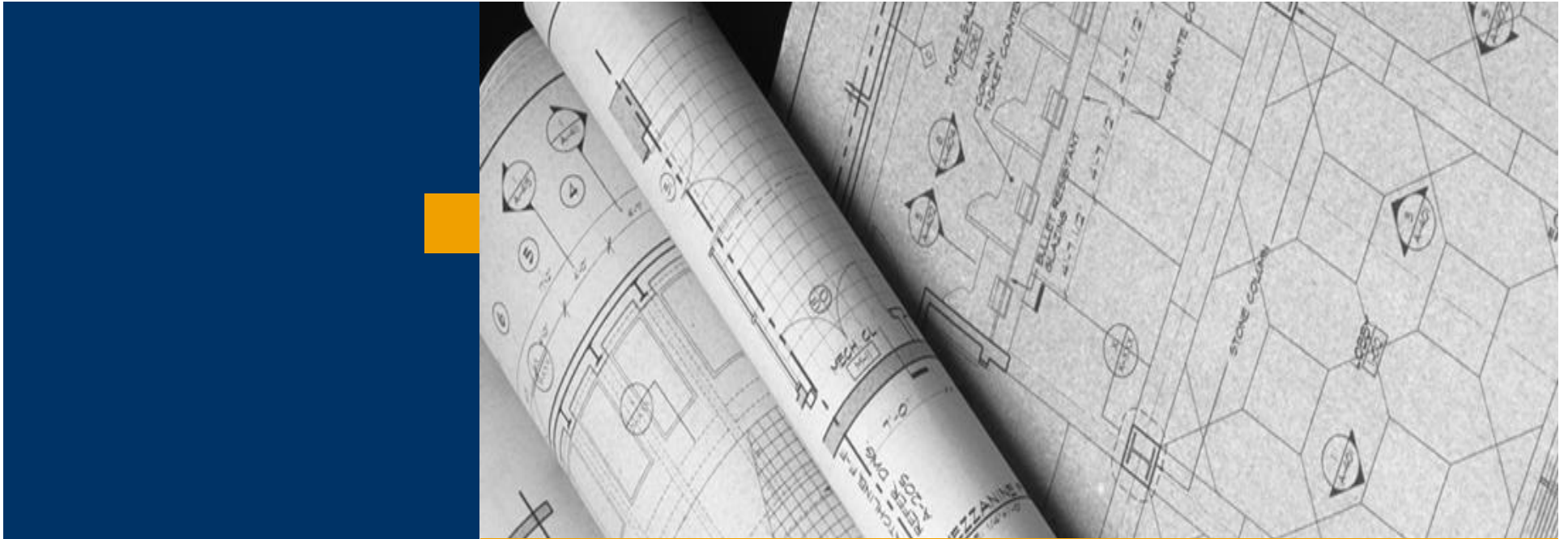
SAP NW '04 & 7.0 Process Integration Release Notes



The screenshot shows a web browser window displaying the SAP Library website. The page title is "SAP Library - Release Notes for SAP Exchange Infrastructure - Microsoft Internet Explorer". The address bar shows the URL: http://help.sap.com/saphelp_nw04/helpdata/en/cf/9644428e9cbe30e1000000a155106/frameset.htm. The page content is titled "Changes in SAP NetWeaver '04 SPS19" and lists various new functions and changes. A table summarizes these changes, including details about adapters, the adapter engine, JMS adapters, the conversion agent, integration processes, and communication channel monitoring.

New Functions and Changes in SAP NetWeaver '04 SPS19	
New Functions and Changes	
Some of the adapters shipped by SAP have new parameters and functions.	Adapters (Enhanced)
E/O processing in the Adapter Engine is now receiver-specific. A queue is provided for each receiver adapter.	Adapter Engine (Enhanced)
Modules are provided for the JMS adapter that enable async/sync and sync/async communication .	Async/Sync and Sync/Async Bridge in the JMS Adapter (New)
The Conversion Agent provides additional functions.	Conversion Agent (Enhanced)
Depending on the semantics of an integration process , you can now enable load balancing in inbound processing to improve performance.	Inbound Processing for Integration Processes (Enhanced)
You can now influence the transactional behavior of integration processes to improve performance.	Integration Processes: Transactional Behavior (Enhanced)
You can now schedule the starting and stopping of communication channels in the communication channel monitor.	Communication Channel Monitoring (Enhanced)
You can now define that principals are to be propagated from a sender to a receiver. You make the required settings in the collaboration agreement.	Collaboration Agreement (Enhanced)

- Release Notes: <http://help.sap.com> -> Documentation -> SAP NetWeaver -> SAP NetWeaver 2004 or SAP NW 7.0 (2004s) -> Release Notes



Administration and Monitoring

Performance

Functional Enhancements



Administration and Monitoring

Performance

Functional Enhancements



THE BEST-RUN BUSINESSES RUN SAP

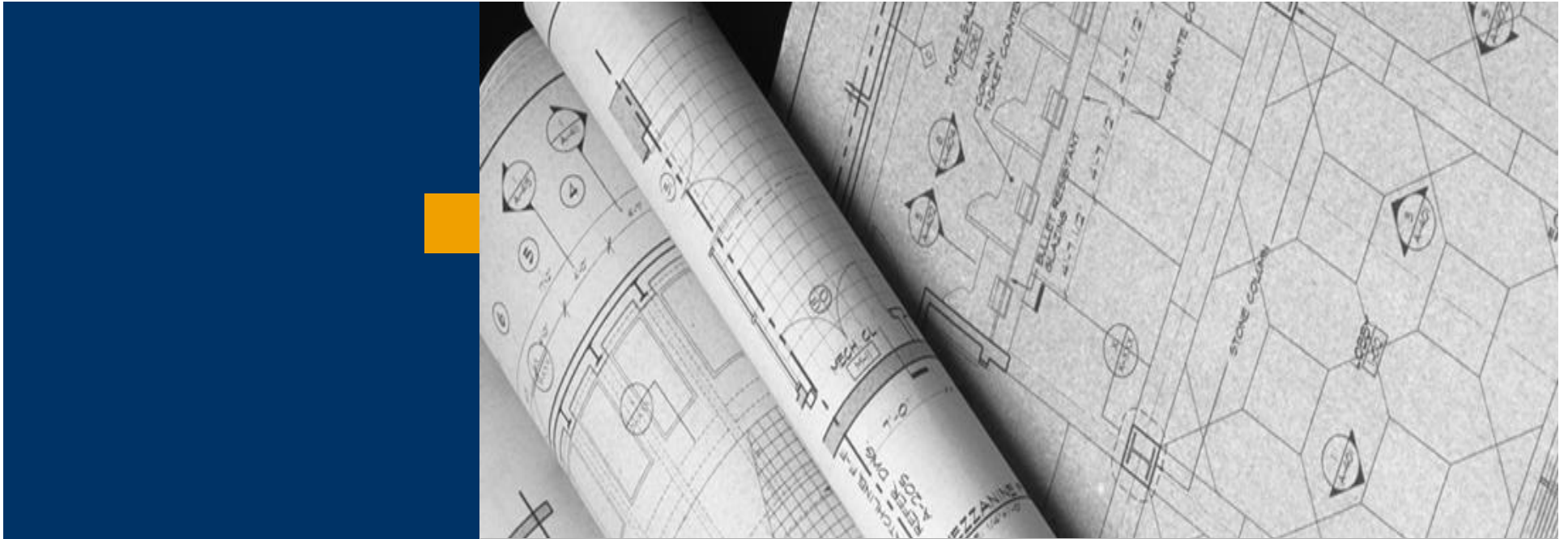


Monitoring and Administration

Customer Requirement	SAP Solution	Provided with
Simple overview of all messages, mass restart of messages	Message Monitoring – Message status overview and simple restart of messages Message Overview	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12 Docu
Critical alerts must be raised for adapters, e. g. if JDBC adapter can't connect to database	Raise critical alerts for all adapters	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12
Modules must be part of channel templates, not to be entered manually	Adapter modules can be defined in a channel template Modules in Communication Channel Templates	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12 Docu

Monitoring and Administration

Customer Requirement	SAP Solution	Provided with
Improve usability of adapters	<p>Introduction of tabs – Information is classified and distributed across tabs</p> <p>Tabs in Adapter Configuration</p>	<p>SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12</p> <p> Docu</p>
Monitoring archived messages	<p>Archived messages can be displayed</p> <p>Monitoring Archived Messages</p>	<p>SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12</p> <p> Docu</p>



Administration and Monitoring

Performance

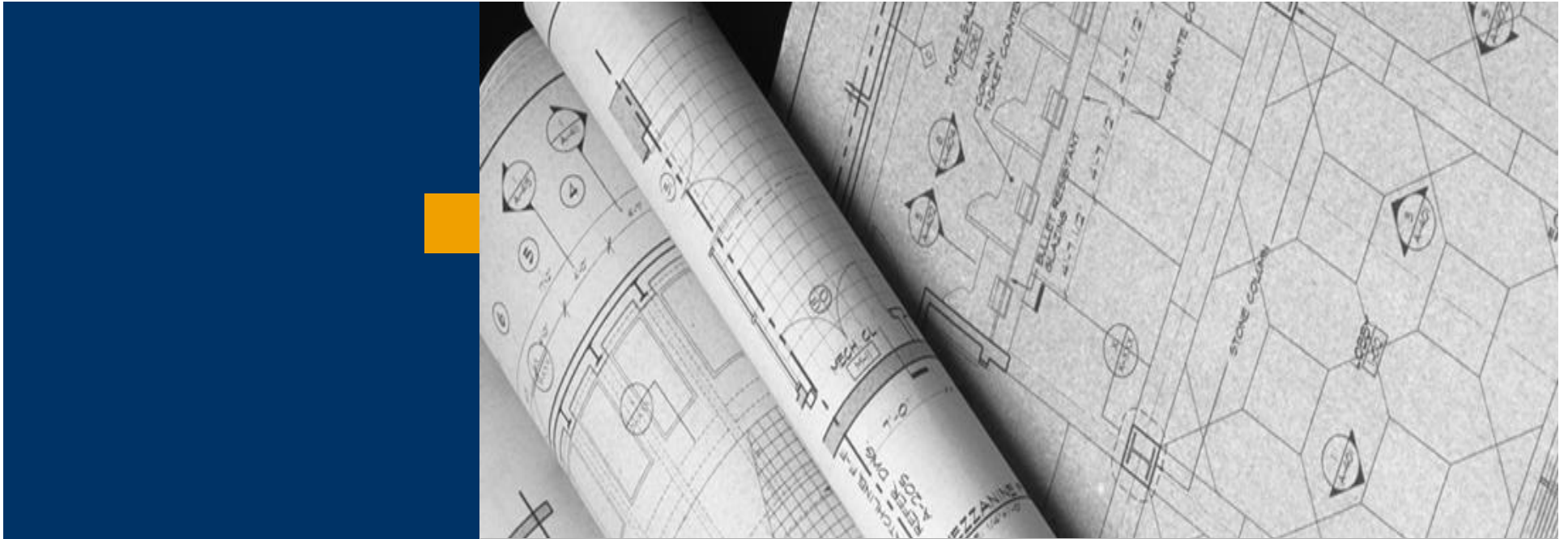
Functional Enhancements

THE BEST-RUN BUSINESSES RUN SAP



Performance Improvements

Customer Requirement	SAP Solution	Provided with
File and JDBC receiver adapter: Configure maximum concurrency	Maximum concurrency can be defined in receiver adapters Maximum Concurrency	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12 Docu
Optimize thread usage	Reuse of spare threads from SAP J2EE engine instead of new ones by JMS adapter	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12





Administration and Monitoring

Performance

Functional Enhancements

Enhanced Features

Customer Requirement	SAP Solution	Provided with
Extend SOAP adapter usage, e. g. full support of SOAP headers, SOAP 1.2	Optionally Axis Framework can be used, provides e. g. several encryption methods Axis Framework in SOAP Adapter	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12  Docu
Huge files must not cause File adapter to be out of memory	Parameters in File adapter check and limit memory usage Maximum File Size	SAP NetWeaver SP20 / SAP NetWeaver 7.0 SP12  Docu

Further Information

→ Public Web

<http://www.sap.com/platform/netweaver>, <http://www.sap.com/icc>

<http://www.sdn.sap.com> → IT Practices and IT Scenarios →

End-to-End Process Integration, Business Event Management,
ESA Design and Deployment

<http://www.sdn.sap.com> → Enterprise SOA, SAP NetWeaver,
Partners and ISVs, Forums

→ SAP Service Marketplace

<http://service.sap.com/xi>

<http://service.sap.com/bpms>

<http://service.sap.com/esa>

<http://service.sap.com/netweaver>

<http://service.sap.com/swdc>

<http://service.sap.com/icc>

→ Training <http://service.sap.com/education>

BIT400 (SAP XI)

BIT430 (SAP XI – BPM)

BIT450 (SAP XI Development)

BIT460 (SAP XI Mapping)

Message Overview

Message Overview

Refresh | View Message Status Sorted By Sender | Time 3/27/07 2:00 AM - 3/28/07 2:00 AM | Detail View >>> | Visible Rows 20

Messages in Time Period 3/27/07 2:00 AM - 3/28/07 2:00 AM

	Sender Party	Sender Service	Interface	Interface Namespace	Channel	Direction	Errors	Scheduled	Successful	Canceled with Error
⊕			IF_FTP_1	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_1	urn:sap.nw.xi.xiveri	FTP_1_R	INBOUND	-	-	1	-
○			IF_FTP_2	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_2	urn:sap.nw.xi.xiveri	FTP_2_R	INBOUND	-	-	1	-
○			IF_FTP_3	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_3	urn:sap.nw.xi.xiveri	FTP_3_R	INBOUND	-	-	1	-
○			IF_FTP_4	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_4	urn:sap.nw.xi.xiveri	FTP_4_R	INBOUND	-	-	1	-
○			IF_FTP_5	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_5	urn:sap.nw.xi.xiveri	FTP_5_R	INBOUND	-	-	1	-
○			IF_FTP_6	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_6	urn:sap.nw.xi.xiveri	FTP_6_R	INBOUND	-	-	1	-
○			IF_FTP_7_R	http://sap.com/xi/XI/System/File/XIVERI		OUTBOUND	-	-	1	-
○			IF_FTP_7_R	http://sap.com/xi/XI/System/File/XIVERI	FTP_7_R	INBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_1	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_1	urn:sap.nw.xi.xiveri	FTPS_1_R	INBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_2	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_2	urn:sap.nw.xi.xiveri	FTPS_2_R	INBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_3	urn:sap.nw.xi.xiveri		OUTBOUND	-	-	1	-
○			IF_FTP_JVer_FTSP_3	urn:sap.nw.xi.xiveri	FTPS_3_R	INBOUND	-	-	1	-
Total							273	6	1269	0

Line 1 / 52

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Modules in Communication Channel Templates

Communication Channel Template Edit View

Display Communication Channel Template (Software component version cannot be changed) Status Active

Name Buyer_Receive_OrderResponse
Namespace http://sap.com/xi/CIDX/40
Software Component Version CIDX 1.0
Description Buyer Receives Order Response

Parameters **Module:**

Processing Sequence


Number	Module Name	Module Type	Module Key
1			0

Module Configuration

Module Key	Parameter Name	Parameter Value
------------	----------------	-----------------

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Tabs in Adapter Configuration

Communication Channel Edit View 


Display Communication Channel Status Active


Communication Channel: csn_0011
Party: Bosch
Service: Baerendienst
Description:


Parameters Identifiers Module

Adapter Type * File http://sap.com/xi/XI/System SAP BASIS 6.40 

Sender Receiver

Transport Protocol * File System (NFS) 

Message Protocol * File 

Adapter Engine * af.j2e.wdfd00145700a 

Source Processing Advanced

File Access Parameters

Source Directory * /

File Name * xi_input.dat

Advanced Selection for Source File

Additional File(s)

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Monitoring Archived Messages

The screenshot displays the SAP NetWeaver SAP Exchange Infrastructure Runtime Workbench interface. At the top, the SAP logo and 'SAP NetWeaver™ SAP Exchange Infrastructure' are visible. Below this is a navigation bar with links for 'Component Monitoring', 'Message Monitoring', 'End-to-End Monitoring', 'Performance Monitoring', 'Index Administration', 'Configuration', 'Alert Configuration', and 'Alert Inb'. The 'Message Monitoring' section is active, showing a search filter for 'Messages from Component Adapter Engine U6X'. The 'From' dropdown menu is open, listing 'Index', 'Database', 'Database (Overview)', and 'Archive'. The 'Archive' option is highlighted with a blue background and is circled in red. A 'Display' button is located to the right of the dropdown menu.

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Maximum Concurrency

Parameters Identifiers Module

Adapter Type * File http://sap.com/xi/XI/System SAP BASIS 6.40

Sender Receiver

Transport Protocol * File System (NFS)

Message Protocol * File

Adapter Engine * af.j2e.wdfd00145700a

Target Processing Advanced

Processing Parameters

File Construction Mode * Add Time Stamp

Write Mode Directly

Empty Message Handling Write Empty File

Maximum Concurrency 1

File Type * Binary

Run Operating System Command Before Message Processing

Command Line

Timeout (secs)

Terminate Program After Timeout

Run Operating System Command After Message Processing

Command Line

Timeout (secs)

Terminate Program After Timeout

[back](#)

Axis Framework in SOAP Adapter

Edit Communication Channel Status: Active

Communication Channel: csn_0011
Party: Bosch
Service: Baerendienst
Description:

Parameters | Identifiers | Module

Adapter Type * SOAP | http://sap.com/xi/XI/System | SAP BASIS 6.40

Sender Receiver

Transport Protocol * HTTP

Message Protocol * HTTP

Adapter Engine * **HTTP (Axis)**

General | Advanced

Connection Parameters

Target URL *

Configure User Authentication
 Configure Certificate Authentication
 Configure Proxy

Security Parameters

Select Security Profile

Conversion Parameters

Do Not Use SOAP Envelope
 Keep Headers
 Keep Attachments
 Use Encoded Headers
 Use Query String

SOAP Action

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Maximum File Size

Parameters Identifiers Module

Adapter Type * File http://sap.com/xi/XI/System SAP BASIS 6.40

Sender Receiver

Transport Protocol * File System (NFS)

Message Protocol * File

Adapter Engine * af.j2e.wdfd00145700a

Source Processing **Advanced**

Adapter-Specific Message Attributes

Set Adapter-Specific Message Attributes

Adapter Status

Status Active

Advanced Mode

Additional Parameters

Msecs to Wait Before Modification Check 0

Maximum File Size (Bytes)

Name	Value
------	-------

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