<u>xp_MsgServer /</u> <u>Heimdall</u>

V1.2.0 – 2024-11-21 by Septirage

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Guide for Admin

Requirements

To use the xp_MsgServer plugin you will need :

- <u>Nwnx4</u>
- xp_bugfix (at least 1.0.74 given in the pack-)

Installation of xp_MsgServer :

Put xp_MsgServer.dll and xp_MsgServer.ini in your nwnx4 folders.

Add the nwnx_MsgServer.nss file in your module (or import it with xp_MsgServer.erf), this file contain all the function you can use.

Configuration of xp_MsgServer:

xp_MsgServer.ini :

- loglevel will set the log verbosity
 - UseConnectionSystem— set to true to use the whole connection system ability
 - KickOutMsg The text used on an error popup when the system kick out the player
 - RememberMeTxt Text show for the checkbox on connection panel

(Note that if the Text is set to "", the checkbox will not be visible)

• AutoAuthenticationScript — script called at the first step of connection.

To know if the player must the connection panel.

- ConnectionValidScript script called when a player try to connect.
- WelcomeMsg Message prompted to "new player". Comment to disable this prompt.
- WelcomePanelXml Xml file used for the WelcomePanel.
- KickPanelXml Xml file the kickScreen.
- UseAnticheatCreation Enable the AnticheatSystem for CharacterCreation
 - ScriptOnCreationError Script called on Creation Error.
 - StopCreationFirstViolation If activated, will call the Script (or stop) at first (each) violations
 - MinScaleX / MinScaleZ the minimal scale value allowed
 - MaxScaleX / MaxScaleZ the maximal scale value allowed
 - UseAnticheatLvIUp Enable the AnticheatSystem for CharacterLevelUp
 - StopLvIUpFirstViolation If activated, will call the script (or stop) at first (each) violation
 - RangerCombatStyleFeats— The list of the Rangers CombatStyle feats
 - GrantedCondForEveryFeats Must came with change on levelup panel. Some modification can allow you to use the GrantedConditions (GrantedOnLvl & GrantedPrereq) for every feat. If you do those change, set this option to 1 in order to ensure correct checks.
 - ScriptOnLvIUpError The name of the script called if an error is detected during levelup.

Installation of Heimdall:

Install xp_MsgServer.

Put sept_heimdall.xml in your hak. Add the WelcomePanelXml and KickPanelXml if setted. Put the AutoAuthenticationScript & ConnectionValidScript as setted in xp_MsgServer.ini in your module.

Scripts details:

AutoConnect Script :

This Script have 4 parameters:

string sPlayerName	The name of the player that is currently trying to log on the server.	
int iIP	The IP of the player that is currently trying to log. If you want to con	overt it in a string format,
	use the XPMsgServer_IpIntToString function.	
string sCDKey	The CDKey of the player that is currently trying to log	
int iPrivileges	The current privileges of the incoming player.	
	Work as imask with 4 for Admin, 2 for DM, 1 for Player.	

Return value = HEIMDALL_RET_* constant, depending of the result wanted :

- HEIMDALL_RET_BAN : will (only) block all communication from the current Player until the next server Reboot or call of XPMsgServer_Unblock.
- HEIMDALL_RET_KICK : Kick the current Player. Showing the kick Panel with a message setted by XPMsgServer_ScriptResponseMsg
- HEIMDALL_RET_NOK : The Player will not be AutoConnected and so will have the connection Panel.
- HEIMDALL_RET_OK : Validate the connection of the player, without need of the connection Panel.

ConnectionValid Script:

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This Script have 7 parameters:

string sPlayerName :		The name of the player that is currently trying to log on the server.	
int iIP	:	The IP of the player that is currently trying to log. If you want to convert it in a string form use the XPMsgServer IpIntToString function.	
string sCDKey	:	The CDKey of the player that is currently trying to log	
int iPrivileges	:	The current privileges of the incoming player.	
		Work as imask with 4 for Admin, 2 for DM, 1 for Player.	
string sPlayerLogin	:	The login entered on the connection Panel.	
string sPassword	:	The password entered on the connection Panel	
string sOption	:	The option parameter from the Connection GUI (with default one : "1" if player check	
		Remember Me, "0" otherwise) .	

Return value = HEIMDALL_RET_* constant, depending of the result wanted :

- HEIMDALL_RET_BAN : will (only) block all communication from the current Player until the next server Reboot or call of XPMsgServer_Unblock.
- HEIMDALL_RET_KICK : Kick the current Player. Showing the kick Panel with a message setted by XPMsgServer_ScriptResponseMsg
- HEIMDALL_RET_NOK : The Player will not be connected, keep the connection Panel active with the possibility of an "error" message setted by XPMsgServer_ScriptResponseMsg
- HEIMDALL_RET_OK : Validate the connection of the player and so they can continue

OnLevelUpError Script :

This Script have 3 parameters :

string sPlayerName	: The PlayerAccount name that try a LvlUp
object oCreature	: The Creature that for which the LvlUp is tried
string sErrorList	: The list of all error encountered, in Specific format

Return value :

Return FALSE, will cancel the levelup for oCreature. Nothing will be changed. Else for TRUE, the levelup will be validated, as if no error was encountered.

OnCreationError Script:

This Script have 2 parameters :

string sPlayerName	: The PlayerAccount name that try to create a new characters
string sErrorList	: The list of all error encountered, in Specific format

Return value :

Return FALSE will cancel the creation of the Character. Else, for TRUE, the character creation will be validated, as if no error was encountered.

AntiCheat LvlUp Error Formats :

Each error will be on the format "#ErrorName:{ parameters }. The text in bold represents values. (exemple **iClassID** represent the value of the choosen class ID).

List of errors :

#too_many_classes:{ iClass0ID, iClass1ID, iClass2ID, iClass3ID, iClass3ID, iClass4ID} => the player tries to get a fifth class.

#class_notvalid:{ iClassID } => the classID is not valid. This error is a final one. No other can be added after.

#class_notplayer:{ iClassID} => the chosen class Is not a player class.

#align_restrict:{Class: iClassID, GE: iGoodEvil, LC: iLawChaos} => the choosen iClassID is not allowed for the alignment

#class_prereq_error:{ iClassID} => the requirements are not met for iClassID.

#skill_restrict:{ iSkill0ID iSkill1ID } => one or more skill ID. Those skill are restricted and should not have been taken.

#toomany_skillPoint:{ iSkillPtsAllowed iSkillPtsUsed } => The player have used too many points

#rangercombatstyle_missing:{} => The player try to level up a ranger (classID = 2) to level 7 and don't have any combat style feat.

#autofeatNotGranted:{ iFeatOld iFeat1ld } => one or more featID. Those feats should have been automatically
granted and are not added.

#familiarType:{oldType:iOldType newType:iNewType} => the familiar type have changed

#DomainDontExist:{ iDomainID } => the DomainID don't exist

#tooManyFeats:{ iNbNewFeats : iMaxNewFeatsAllowed } => The player have taken too many feats.

#featSelectionError:{} => Something is bad about feat selection (not right number of domainsFeat, bonus feat , ...)

#featPrereqNotValid:{ iFeat0ID iFeat1ID ...} => one or more FeatID. The feats not met the prerequirements.

#SchoolChanged:{} => the Magic School has changed

#SpellSchoolError:{ **iSpellID** } => The player have try to take a spell forbidden by their magic school

#SpellLevelError:{ **iSpellID**:**iLvlOfSpell**:**iLvlUsed**} => The player take iSpellID for iLvlUsed while this spell is iLvlOfSpell

#SpellError:{ iSpellID } => This spell don't exist or is removed

#SpellClassProgressError:{} => The player try to progress in a class you don't have

#TooManySpellTakens:{} => The player took too many new spells

#SpellLvlTooHigh:{} => The player take a spell with a level above the current maximum level allowed.

- #TooManySpellTakens:{ iLvl } => The player take too many spell of iLvl
- #BadSpellRemoved:{ iSpellID } => The player try to remove a spell they don't have
- #SpellRemovedTooHigh:{} => The player try to remove a spell of a level above what is allowed

#TooManySpellRemoved:{ iTotalSpellRemoved } => The player try to remove too many spells

AntiCheat CreateCharacter Error Formats :

Each error will be on the format " #ErrorName:{ parameters }. The text in bold represents values. (exemple iClassID represent the value of the choosen class ID).
List of errors :
#BadRace:{ iRaceRow, iSubRaceRow } => Something is not valid on the Race or Subrace
#AbilityError:{ iStr , iDex , iCon , iInt , iWis , iCha } => Some base abilities (before racial change) are below 8 or above 18
#BadAmountAbilityPoints:{ iStr, iDex, iCon, iInt, iWis, iCha, iAbilityPointsUsed} => The amount of ability point is != 32
#AlignError:{ iGoodEvil , iLawChaos } => Alignement don't match one of the default values.
#ClassPrereqError:{ iClassID } => Some of the pre-requirements of the chosen class are not met
<pre>#SkillTooHigh:{ iSkill0ID : iNbSkill0Point } => one or more pair of skill ID – Nb of skill points. Too many skillpoints for those skillID #SkillNotAllowed:{ iSkill0ID } => one or more skill ID. Those skills are not allowed yet they have been taken.</pre>
<pre>#TooManySkillPoint:{ iSkillPtsUsed : iSkillPtsAllowed } => the player try to use too many skill points</pre>
<pre>#RacialFeatNotFound:{ iFeatID0 iFeatID1 } => one or more featID. Those racial feat should have been taken</pre>
#AutoFeatNotFound:{ iFeatID0 iFeatID1} => one or more featID. Those auto-granted feat should have been here.
#BackgroundReqError:{ iBackgroundRow } => the selected Background don't met the requirements
#FeatNumber:{ iFeatNb } => The player has tried to take more (or less) feats than expected.
#FeatChoiceError:{} => While the number of feat seems correct, the player have taken more regular/bonus or domains feats than legally expected.
#DomainFeatNotFound:{ iFeat0ID iFeat1ID} => one or more feat id. Those domains feats should be present.
#TooManyBackgroundFeat{} => The player selected more than 1 background feat.
#AtLeastOneFeatNotValidated :{ iFeatID } => At least this feat should not have been taken.
#SpellSchoolError:{} => The player try to take spell from a forbidden school
#SpellLvlError:{} => The player select a spell of a lvlX for a lvlY slot
#SpellUnknow:{} => The player select an unknow (or removed) spell
#SpellNumberLvlError:{} => The player don't take the right amount of spell for a specific level
#ScaleXandYDifferent:{ fScaleX, fScaleY} => On default character creation, ScaleX and Y should be the same.
#ScaleError:{ X: fScaleX ,Z: fScaleZ } => The scale are out of bounds.